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THE CHEMIST AND DRUGGIST

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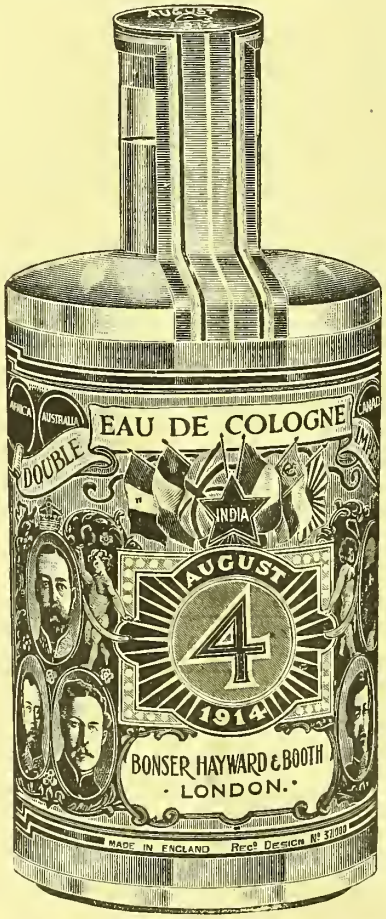

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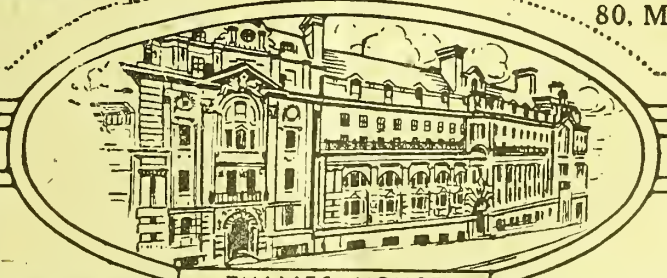
Methyl Salicylate
Peppermint Oil
Pepsines, Pancreatin, Peptone and other digestive Ferments
Phenacetin
Phenazone
Pyrogallic Acid
Potassium Sulpho-Guaiacolate
Quinidine and Salts
Quinine and Salts
Quinine Ethyl Carbonate
Salicylic Acid
Salicylate of Soda
Salol
Sugar of Milk
Tannic Acid
Tannin Albuminate
Terpineol
Terpine Hydrate
Theobromine
Thymol Crystals
Vanillin

R. W. Greeff & Co. THAMES HOUSE, QUEEN ST. PLACE, LONDON, E.C.

MANCHESTER BRANCH:
Lloyds Bank Buildings, King Street.

NEW YORK AGENTS:
R. W. Greeff & Co., 80, Maiden Lane.



This Map shows the easy accessibility from all parts of London to

FARRIS'S FOR WAXES AND OILS OF EVERY DESCRIPTION.

FARRIS'S GENUINE BEES WAX.

Real old-fashioned, guaranteed air bleached, B.P.

The Only Actual Manufacturing Wax Chandler in the City of London.

Pure English Refined Spermaceti, Refined Paraffin Wax,
Stearic Acid, and Waxes of every known kind.

"FARRISOL"

PARAFFINUM LIQUIDUM, B.P.
—ENGLISH MADE—
FROM PURE RUSSIAN OILS

Absolutely Odourless and Tasteless. Recommended and adopted by the highest Medical Authorities.
GUARANTEED TO EXACTLY CONFORM TO B.P. TESTS.

"FARRISOL" SNOW-WHITE OPAQUE JELLY, B.P.

OLIVE OIL. FINEST EDIBLE AND PHARMACEUTICAL, B.P.

Castor Oil, Cod Liver Oil, Palm Oil, Peach Kernel Oil, Lanoline, White Oil, etc.

INSULATING FLUID. SPECIAL REFINER OF OILS FOR THE FINE CLOCKWORK OF TELEGRAPHIC INSTRUMENTS.

OIL REFINER TO HIS MAJESTY'S GOVERNMENT.

CHARLES FARRIS, 71 BISHOPSGATE, LONDON, E.C.

Works: HELMET COURT, BISHOPSGATE, E.C.

Warehouses and Stores: 91 & 93 Bishopsgate; and 12 Wormwood Street, E.C.

Telephones: LONDON WALL 9397 and 9398. **Telegrams: "WAXINESS, LED, LONDON."**

TELEPHONE. CITY 7 PRIVATE BRANCH EXCHANGE
TELEGRAMS ELEVEN CENT LONDON

Maw's Page

S. MAW SON & SONS LTD (G.P.O. BOX No. 54) 7-12 ALDERSGATE ST LONDON E.C.1

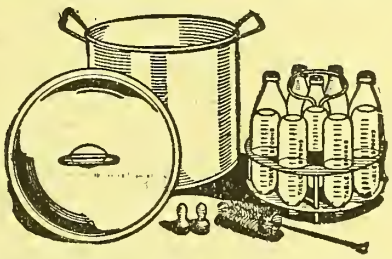
NUMBER 302 JULY 28, 1917

CABLES ELEVEN LONDON
CODES A.B.C. 4TH & 5TH EDITION

C. TRENTHAM MAW, J.P. HENRY T. MAW, M.D. MOWBRAY T. MAW. ARTHUR T. MAW, PH.C.

Child Life

The Nations greatest lines for The Nations greatest asset



MAW'S EUGENIC MILK STERILIZER.

This sterilizer should always be employed where a baby is artificially fed, whether the milk is given with prepared food or alone. It gives the greatest possible protection against the contamination of cows' milk. This is thoroughly purified by a process of germ destruction, and is preserved without alteration, remaining agreeable to the taste.

Sold in two sizes, complete with 6 bottles, **11/6** each.
With 10 bottles, **15/-** each.
Spare bottles **10/-** per dozen.

BABY'S BEST BOTTLE

Maw's Eugenic Feeding Bottle is fitted with a non-splitting valve and a teat which will not pull off. The increasing popularity of this bottle justifies its reputation of being "Baby's Best Bottle."

Price complete in box with brush **9/9** per dozen.

MAW'S EUGENIC SOOTHERS.

Each soother is enclosed and supplied in sealed dust-proof envelopes for reasons of health and hygiene. A showcard, with a sample soother, is supplied with orders of one dozen.

Price **4/9** per dozen.

LIQUID GLUCOSE

SO_2 Free.

NO BLUEING USED.

Specially pure for Pharmaceutical Preparations.

THE MANBRÉ SACCHARINE Co., Ltd.,

HAMMERSMITH, LONDON, W.6.

FREEMANS

REAL TURTLE Soup Cubes

"Ready to Serve."

Made from the real rich meat of selected West Indian Turtles—so that real Turtle Soup, once the privilege only of the rich, is now a delicacy easily accessible to every household. No other soup is so nourishing and delicious.

Made in a minute with boiling water.

To retail in 1/- Cartons containing 4 Cubes,

THE WATFORD MFG. CO., LTD., *Makers of* Freemans Table Dainties Boisseliers (Boy-sel-e-a) Chocolates and Vi-Cocoa, Victoria Wks. Watford

Freemans READY SOUPS Watford

GENATOSAN'S FORTNIGHTLY LETTER.

No. 4.—"Your New British Possessions"

DEAR SIR,

We again publish an illustration of our new showcard, bearing the above title, as a reminder to you to send for a copy before the issue is exhausted.

Numerous applications have already been received, and these are being dealt with as fast as is possible with our limited staff; we ask your indulgence in advance if there should be any delay in sending your copy.

Meanwhile, we have passed for printing the proof of another new showcard, details of which will be published as soon as it is ready for delivery.

In reply to numerous inquiries, we regret to confirm our previous announcement that, while the present abnormal shortage of paper continues, we shall be unable to supply any further counterbills.

We are, dear Sir,

Yours faithfully,

GENATOSAN LTD.

(Chairman: Lady Mackworth)

12 Chenies Street, London, W.C. 1.

Sanaphos

T. M., Reg.

For all Disorders of Nutrition and Nerves

NUTRITION needed for nerves in neurasthenia and nervous debility in these nerve-wearing and distracting times is amply supplied by SANAPHOS, which is not a one-constituent food, but is replete in tissue-repairing and energy-giving constituents.

These are supported by the phospho-nucleins and other organic phosphorus compounds, enzymes and vitamin which ensure assimilation and repair, restoring to the organism tone, nerve fitness and vigour.

SANAPHOS has an attractive milk-like flavour and is soluble. Patients take it readily, and it has given most valuable results in all debilitated conditions, restlessness, insomnia, and helps in a very striking way in bringing those weakened by illness back to strength.

Sanaphos is *and always has been* wholly British.

SANAPHOS is procurable at fixed prices from all Chemists and Stores throughout the world.

For all information address :

BRITISH MILK PRODUCTS CO., LTD.

69 MARK LANE, LONDON, E.C. 3.

PURE DRINKING WATER.

The Pasteur Chamberland Filter.

OFFICIAL GOVERNMENT STATEMENT:

Wherever the **PASTEUR FILTER** has been applied, **TYPHOID FEVER** has disappeared.

WRITE FOR LIST B.

SOLE MAKERS:

The British Pasteur Chamberland Filter Co.

5 WHITE STREET, FINSBURY, LONDON, E.C.

TELEPHONE – CITY 65

TELEGRAMS – "FORSHAPCO, WESTCENT, LONDON."

FORD, SHAPLAND & Co. LTD.

LABEL & GENERAL PRINTERS.

Fine Art Showcards · Cartons Envelopes for Shampoo Powders Corn Silk etc.

Dental & Optical Circulars.

AGENTS FOR THE REGISTRATION OF TRADE MARKS.

GT. TURNSTILE, HIGH HOLBORN W.C.1.

TRADE MARK.

Established 132 Years ago.
British Partners since Commencement.

R. J. FULLWOOD & BLAND,

THE ORIGINAL INVENTORS OF ANNATTO.
THE FIRST MANUFACTURERS OF RENNET IN ENGLAND.

ANNATTO

Cheese Rennet, Butter Colour, Essence of Rennet, Rennet Powder, Junket Powder, Junket Tablets.

Offices and Manufactory: 31, 33, 35 BEVENDEN STREET, HOXTON, LONDON, N.

TRADE MARK

THE MOST ECONOMICAL INFANTS' FOOD.

"FRAME FOOD"

ON P.A.T.A. LIST. *SHOWCARDS FREE.*

FRAME FOOD CO., Standen Road, Southfields, London.

BRAND'S ESSENCES

OF

BEEF, MUTTON and CHICKEN

possess great nutritive and restorative powers, being immediately digested and absorbed by the stomach. Although effective stimulants in physical and mental exhaustion, they contain no wine or other deleterious admixture.

BRAND & Co., Ltd., MAYFAIR WORKS, VAUXHALL, LONDON, S.W.

Dr. Allinson's Food Preparations

FOR ALL AGES AND CONDITIONS OF HEALTH AT FIRM AND PROTECTED PRICES.

Food for Babies, Prepared Barley, Brunak, N.-F. Cocoa, Biscuits, Soup, Wholemeal, &c.

See Trade Mark "T. R. Allinson" on all our goods—None Genuine Without.

SPECIAL NOTICE.

We issue a list of WHOLESALE HOUSES who keep above in stock; if for any reason you have difficulty in obtaining supplies, please send postcard direct to us, and a list will be sent to you by return.

NATURAL FOOD COMPANY, Ltd.,
Cambridge Road, Bethnal Green, LONDON, E.

All advertising matter—Booklets, Window Displays Showcards, etc., free on application.

N.B.—Our goods are to be sold only at prices stated upon the Price List we issue to the trade, and we are pleased to exchange any article which may be out of condition.

Do You Sell
Sister Lauras Food?

The question is often asked nowadays.

The Chemist who does not stock Sister Lauras Food is missing a good line.

Sister Lauras Food is achieving great success as a preparation for weakly babes and for invalids and the aged.

It makes milk digestible and is invaluable in cases of malnutrition.

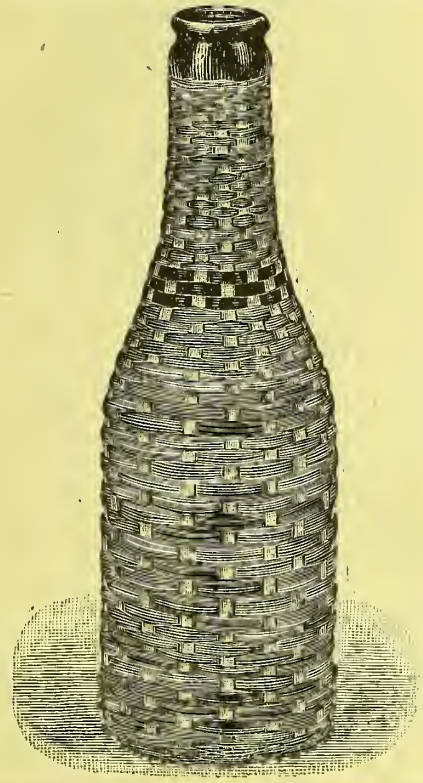
It is a thoroughly reliable line and one that brings a handsome return.

Price 1/- & 2/6 per tin. *Samples and advertising matter free on application.*

SISTER LAURAS INFANT FOOD CO., Ltd., 156 Vincent Street, GLASGOW.

Wickered Bottles

FOR THE TRADE.



We guarantee prices 5 to 10% cheaper than invoice prices of any other firm in Britain.

Styles and quotations on application.

RIVERS, HILL & CO., Ltd.
Broadstone, Dorset.

Every Soldier on home or active service, every Sailor in the Navy or Merchant Service, every fighting man on land or sea, in the air or under the ocean, needs a

THERMOS

many times **every** day. Are you doing your share in supplying this immense demand? If not, you are losing business and profits. It is no platitude to say that **THERMOS** sells itself; it is a fundamental truth. It is a psychological force you can put into motion to increase your turnover if you feature the genuine **THERMOS** in your windows.

CATALOGUES, ETC., ON REQUEST.

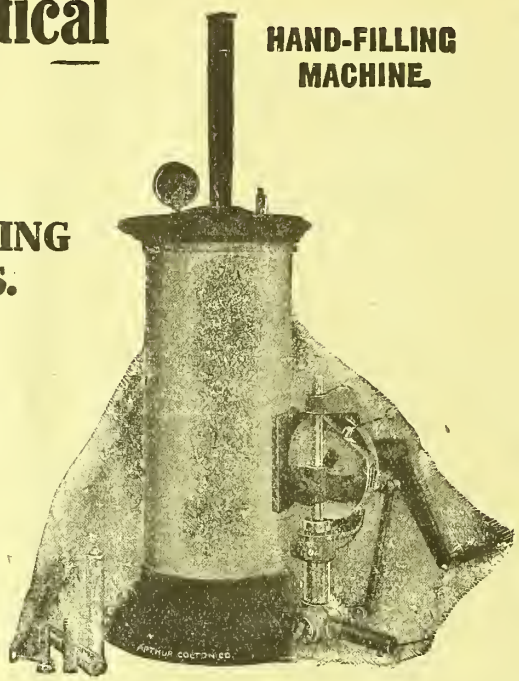
THERMOS, LTD.
Byron House,
2 & 4 Finsbury Street,
LONDON, E.C.

Colton's Pharmaceutical Machinery.

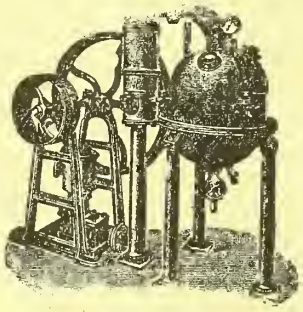
COLLAPSIBLE TUBE FILLING and CLOSING MACHINES.

TABLET AND PILL PLANT, etc.

LISTS FREE ON APPLICATION



JOHN J. GRIFFIN & SONS, LTD., KINGSWAY, LONDON, W.C.



STILLS, VACUUM STILLS, VACUUM PANS.
EVAPORATING PANS.
AUTOCLAVES AND DIGESTORS.
SPECIAL APPARATUS AND PLANT FOR MANUFACTURING CHEMISTS.

SOLE MAKERS of BENNETT'S PATENT 'IDEAL' ANNULAR FILM CONDENSERS.
SHEARS' PATENT MULSER.

BENNETT, SONS & SHEARS, LTD.
ENGINEERS & COPPERSMITHS,
43 & 44 Shoe Lane, LONDON, E.C. 4.

CHEMICAL PLANT

FOR NEARLY ALL INDUSTRIES IN

STEEL, CAST IRON, BRONZE AND SPECIAL ALLOYS

OR

TANTIRON

ORGANIC & SYNTHETIC PRODUCTS,
SALICYLIC ACID & SULPHONATED,
CHLORINATED & ACETYLATED COMPOUNDS.
PLANTS FOR NITRIC, SULPHURIC & HYDROCHLORIC ACID.

LENNOX FOUNDRY CO., LTD.
GLENVILLE GROVE, NEW CROSS, LONDON, S.E.
Telegrams: "Equifex Dept., London." Telephone: New Cross 770.

BAISS BROTHERS & Company, Ltd.

TRADE MARK

Established 1833.

EXTRACTS

prepared in vacuo.

From this season's plants, which are in fine condition, we are now making

EXT. HENBANE
EXT. BELLADONNA
etc.

and samples and prices are at disposal of wholesale buyers.

Drug & Herb Farm—CARSHALTON, Surrey.

BAISS BROTHERS & COMPANY, Ltd.

Wholesale and Export Druggists, Manufacturing Chemists and Makers of Surgical Instruments,

Contractors to His Majesty's Government; the Crown Agents for the Colonies; various Foreign Governments; and the principal Hospitals and Institutions at Home and Abroad.

174, 175, 176 GRANGE ROAD, BERMONDSEY, LONDON, S.E. 1.

Drug Mills: GRANGE WORKS, BERMONDSEY.

THE EMPIRE
EAU de COLOGNE

Makes friends wherever introduced, and will be one of your best agencies. It is made to the highest standard and distilled to test 50° overproof.

Present Prices:

1 oz.	.... 7/9	per doz.
2 oz.	.... 14/-	,,
4 oz.	.... 24/9	,,
8 oz.	.... 46/6	,,

SHIPPERS AND EXPORTERS SUPPLIED IN BOND.

THE EMPIRE PERFUMERY CO. (Cuxson, Gerrard & Co., Ltd. Proprietors), OLDBURY.

A cheaper quality is supplied under the Flag label. Please ask for samples of both.

You Reap the Profits!

The above is only one of the many forceful advertisements now appearing in the most influential National publications and Fashion periodicals telling housewives that Iron-mould is no longer immovable. MOOVOL contains no injurious acids and is not harmful to the most delicate fabric.

ARE YOU PARTICIPATING IN THE PROFITS?

Send a P.C. for trial stock and display material to

WM. EDGE & SONS, LTD., BOLTON, LANCS.

(THE DRUMMER DYE PEOPLE.)

It PAYS handsomely

to make a leading line of Anzora Cream, for this unrivalled preparation for the hair is a *proved* quick seller, and will give satisfaction to even the most fastidious customer. It is the only non-greasy cream that will effectually master the hair and keep it in place all day. *Do not stock substitutes*, for they are bound to disappoint and liable to leave flaky deposits.

ANZORA CREAM & ANZORA VIOLA (for dry scalps) are on the P.A.T.A. List.

TRADE TERMS:
11/6 per doz. Retailed at 18/-
19/6 ,, ,, ,, 30/-

Anzora Perfumery Co.
32/34 Willesden Lane, LONDON, N.W.

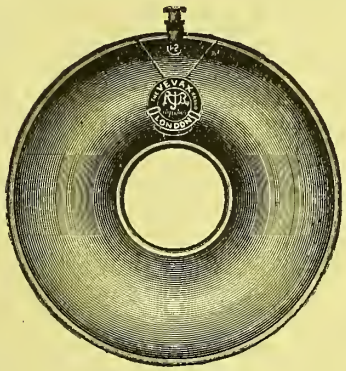
ANZORA HAIR CREAM

Two Leading TRADE "VĒVAX" MARK Lines

TRADE "VĒVAX" MARK

SOLID INDIARUBBER AIR CUSHIONS

Double Flange.



Best British Make.

RED CIRCULAR—

12 in.	13 in.	14 in.	15 in.	16 in.
6/3	**7/-**	**7/6**	**8/-**	**8/9**

18 in.	19 in.	20 in.
10/6	**11/6**	**12/6** each.

Special Line.

MAROON CIRCULAR, SOLID INDIARUBBER
U.S.A. Manufacture—

14 in.	16 in.	18 in.
5/10	**6/6**	**7/3** each.

Usual Discount.

TRADE "VĒVAX" MARK

CRÊPE BANDAGE.

A perfect substitute for Rubber or Elastic Webbing for all binding purposes.

Best British Make.

Contains approximately 70 per cent. of pure wool.

Widths:	2 in.	2½ in.	3 in.	3½ in.	4 in.
Prices:	**11/6**	**13/9**	**16/6**	**18/6**	**21/-** per dozen.

SIX YARDS WHEN FULLY STRETCHED.

For particulars of Special Bonus Scheme apply to Sole Wholesale Depot—

R. J. REUTER,

69 CARTER LANE, LONDON, E.C. 4.

ALL COLLAPSIBLE!

PATENT CARDBOARD PACKING CASES AND WOOD-END BOXES.

FOLDING CARTONS
PRINTED OR PLAIN.

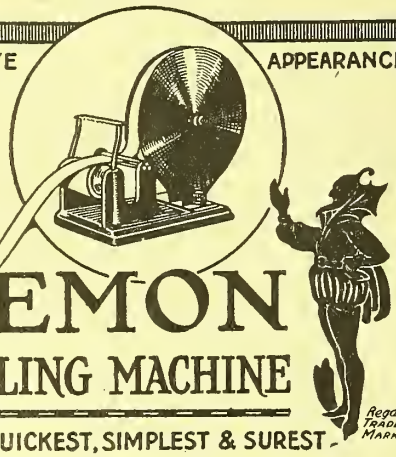
ADVERTISING DUMMIES
FOR ALL PURPOSES.

ALSO RIGID POSTAL BOXES, OPTICIAN BOXES, &c. &c.

GLOBE BOX CO., BOSTON MILLS, HYDE, CHESHIRE.

Proprietors: CARTWRIGHT & RATTRAY LTD. 'Phone No. 115 Hyde (2 lines).

ATTRACTIVE APPEARANCE



USE THE

DEMON
SEALING MACHINE

Regd. TRADE MARK

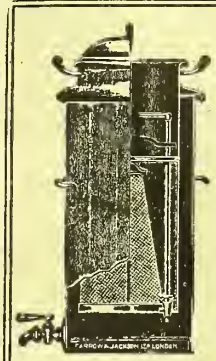
THE QUICKEST, SIMPLEST & SUREST METHOD OF PARCELLING.

Ask for particulars and samples, or, better still, our representative will be pleased to call and demonstrate.

GUMMED PAPERS LTD.
Regd. Offices:
47 RUTLAND ST., LEICESTER

SAPONINE
(SOLUBLE),
MANUFACTURED BY
C. W. FIELD, LTD.,
Cambrian Mills, LIVERPOOL.

Special Terms to Wholesalers and large Consumers.



ASBESTOS
FILTERS and Filtering Mediums.

ESTABLISHED 1798.

FARROW & JACKSON, Ltd.
16 Great Tower Street, LONDON, E.C. 3.

Petroleum Jelly

White, Yellow, Amber, & Ruby Red, for all Pharmaceutical and Veterinary purposes

MEADE-KING, ROBINSON & CO.
LIVERPOOL - - - MANCHESTER

TIN FOIL

BRITISH MAKE

Highly polished foils—printed, lacquered, embossed or plain. Guaranteed free from lead for tobacco, cigarettes, foodstuffs, etc. In sheets or reels—large or small quantities

Also collapsible tubes in pure tin, pure lead or lead-coated with tin for rubber solution, artists' colours, tooth pastes and other toilet preparations.

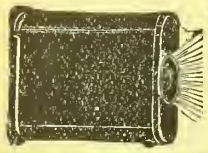
SHAVING STICK CASES. SCREW-CAPS, ETC

Venesta Ltd
1, GREAT TOWER ST.
LONDON

DR. EVAN WILLIAMS' ORIGINAL HENNA SHAMPOO

A Business Vitalizer, something with Real Force behind it.

Apply for Descriptive Price List and Trade Terms.
289, OXFORD ST LONDON, W.



ELECTRIC POCKET LAMPS
New List ready shortly.
IN THE MEANTIME let us send you a sample dozen complete lamps, all different, carr. paid, for 25/- net.
ARCHIBALD J. WRIGHT, LTD.
61 Eden Grove, Holloway, London, N. 7.

FINEST QUALITY
MILK POWDER. CASEIN.
Inquiries and Orders Solicited.
PRIDEAUX'S LTD., DEPT. C, MOTCOMBE, DORSET
LONDON OFFICE:
10 HOP EXCHANGE, Southwark Street, S.E.

LOFTHOUSE & SALTMER, Ltd.
Wholesale & Export Drug Merchants,
Manufacturing Chemists
HULL

INVITE the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

P.A.T.A.	Protected Retail Price.	Dozen Net.
*LOSALL'S SALT (well advertised), tins	7½d.	5/6
" " " " " "	1/2	10/-
" " " " " bottles in cartons	1/6	12/-

Losall's Salt sells so well, surely it must pay Pharmacists to stock such a large profit-bearing protected line.

LOSALL'S COMPOUND SULPHUR SOAP.
A valuable emollient medicated skin soap, especially suitable for use in Eczema 13/6 per dozen boxes net.

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.

DECOLTENE The liquid hair remover

Dinkie The Dainty Deodorant

The intelligent depilatory. Simple, safe and effective. Pleasant and harmless. Invaluable during the décolleté vogue. Daintily packed.

An attractive line that enjoys good sales. A greaseless Cream, that takes the odour out of perspiration. Daintily packed in opal jars.

Ask your wholesaler. Both articles largely advertised.

SATISFACTION GUARANTEED OR MONEY BACK.

TRADE TERMS.

DECOLTENE. Advertised and min. Retail price 3/9
Trade 30/- per doz.

DINKIE. Advertised and min. Retail price 2/6
Trade 20/- per doz.

5% cash with order. Carriage paid on £1 lots. Particulars on request.

ROBARTES, LTD.,
128 JERMYN STREET,
LONDON, S.W.1
Telephone · Gerrard 3672.

FOR LARGE BUYERS.

LIME CREAMS

Bulk or Packed.

Also Vanishing Creams, Brilliantines, Toilet Paraffins, Shaving Sticks, Tooth Powders, Dental Creams, Shampoo Powders, and All Toilet Goods.

LOW PRICES for HIGH QUALITY.

STOKES & CO., Ltd.
Manufacturing Chemists and Perfumers,
31-35 Lower Castle, BRISTOL.
(4)

3 Cheap Lines !!!

SOOTHERS.
Transparent Teat on Wood Stem.
(Sells at 2d.) **13/6 gross**

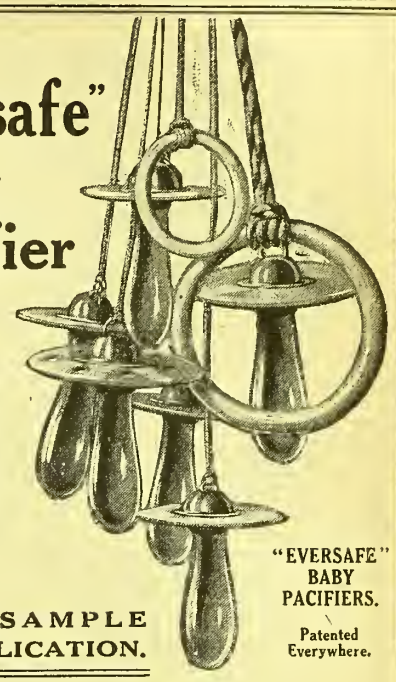
TOOTH BRUSHES.
3-row Bone Handle. (Japanese.)
12/- gross

VALVES. Transparent.
12/- gross

Minimum quantities of any line : **One gross.**
Carriage paid in U.K. only. Cash with order.

THOMAS SWALES, Sundriesman
24 Butts Court, and 89 Albion Street
LEEDS.

The
"Eversafe" Baby Pacifier



Our Manufacturing facilities being considerably increased we have the pleasure of inviting orders for prompt delivery.

FREE SAMPLE ON APPLICATION.

Trial Orders, minimum value **10/-**
Cash with Order, Carriage Paid, U.K.

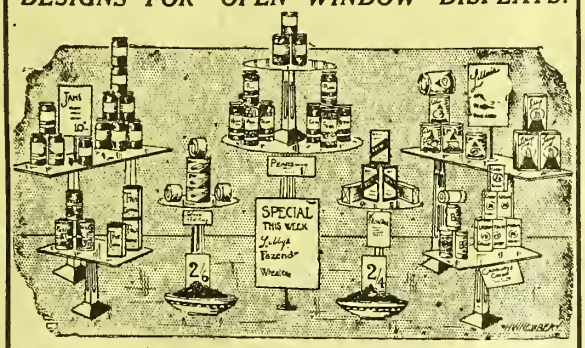
F. SCHUTZE & CO., LTD.
BLACK BULL WORKS - LONDON, N.

W. DAVIS
100 WOOD ST., E.C. 2
'Phone: CITY 8220
For OPEN WINDOW DISPLAYS.

SHOPFITTERS D&N SUNDRIES DECORATIVE & NEEDFUL

W. DAVIS
100 WOOD ST., E.C. 2
'Phone: CITY 8220.
For OPEN WINDOW DISPLAYS.

WRITE FOR OUR LIST SHOWING MANY NEW DESIGNS FOR OPEN WINDOW DISPLAYS.



Set 110.—Consisting of 4 15 in., 2 12 in., 2 6 in., 1 24 in., 1 9 in., OAK PEDESTALS; 1 20 in. × 15 in., 2 16 in. × 10 in., 1 12 in. × 8 in. OVAL PLATE GLASS SHELVES, and 2 24 in. × 9 in., & 2 16 in. × 10 in. OBLONG PLATE GLASS SHELVES; 2 WILLOW BOWLS.

62/- Complete.

Our WINDOW PAPERS are 2/9 per roll of 12 yards, 21 in. wide.—WRITE FOR SAMPLES.

IMMEDIATE DELIVERY

ESSONA
Tooth Powders

FOUR VARIETIES

OXYGEN
EAU DE COLOGNE
WHITE CARBOLIC
PEPPERMINT

Per doz.	...	2/9	6 doz.	@	2/7
3 doz.	@	2/8	12 doz.	@	2/6

5 per cent. Cash Discount on orders of £1 or more. Carriage paid anywhere in British Isles.

Quality Powders and First-class Get-up

ESSONA PERFUMERY CO.
Haydon's Bridge, Wimbledon, S.W.19.

HERM. MADOERY

BASLE, SWITZERLAND.

Chemical Works. Established 1902. Swiss Firm.

SPECIALITIES:

PHARMACEUTICAL PRODUCTS

Caffein, Pure. Male Fern Extract.
Quinine Ethylcarbonate. Quinine Salts.
Silver Salts. Tannin Albuminate.
Sulfothyol. Vanillin. Yohimbine. Etc.

Apply for Price List.

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Send for Price List and Trading Terms.

ODOL
Chemical Works,
BERKHAMSTED.

C.V. & S.—3.

LEAD CAPSULES

have their merits, no doubt, but artistic appearance and clean finish are not among them. Let us show you how—just as easily and more efficiently and artistically—

SEMREH

BOTTLE CAPS

will do the work.

THE VISCOSE
Development Co., Ltd.,
BROMLEY, KENT.

"Newbery's"

FRANCIS NEWBERY & SONS LTD

No. 7
Brillantine

À LA
Violette
(inseparable)

A Ready and Constant Seller. Good Value to Customer and Good Margin of Profit to Retailer.

3-oz. Size ... ... 4/6 doz. net.
6-oz. „ ... ... 7/6 „

Customer's own Name & Address on orders for 6 doz. single or mixed sizes.

Charterhouse Square, LONDON, E.C.1.

ADEPS LANÆ, P.B.

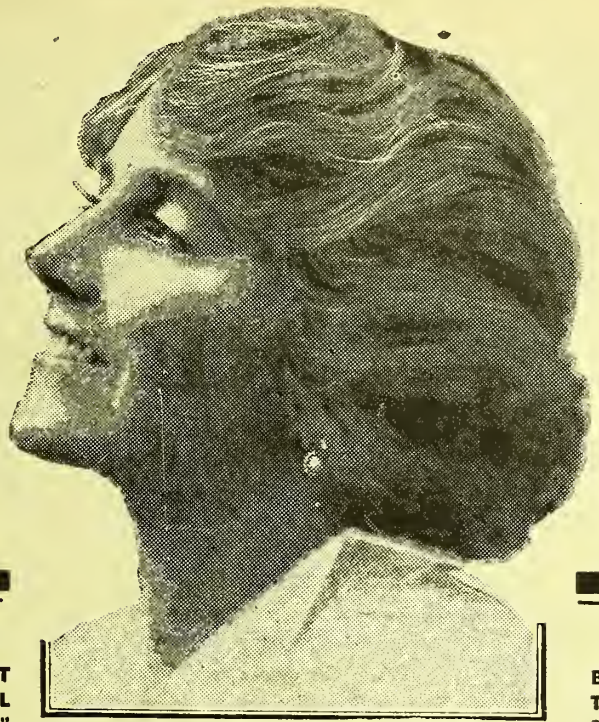
THE FINEST BRITISH LANOLINE YET PRODUCED

IS MANUFACTURED BY

THE PHARMACEUTICAL LANOLINE CO.

7 Carnwath Road, Fulham, London, S.W.

WHO INVITE INQUIRIES.



ENGLAND'S MOST BEAUTIFUL WOMEN ALL PRAISE "HARLENE" PREPARATIONS.

BRITISH STANDARD TOILET PRODUCTS OF WORLD-WIDE POPULARITY.

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MISS ELLALINE TERRISS

This famous actress declares she is never without "Harlene," having proved the beneficial result to be obtained from its consistent use.

MILLIONS OF GIFTS

The vigorous and world-wide "Gift" Campaigns that are the outstanding feature of the advertising in connection with

"**HARLENE**" for the Hair ("Harlene" Hair-Drill)
"**ASTOL**" for Grey Hair
"**UZON**" BRILLIANTINE
"**CREMEX**" SHAMPOO POWDERS
"**ASTINE**" VANISHING CREAM (for the Complexion)
"**ASTINE**" SHAVING STICK
"**ASTINOL**" Aromatic Fluid Extract (Pine Baths at Home)

and other of their well-known preparations issued from the house of EDWARDS' HARLENE, LTD., have won adherents in every part of the British Empire.

In spite of War conditions, these Publicity Campaigns have been as widely advertised as ever, with corresponding benefit to the retail trade. Reports prove that "Harlene" products are to-day still supreme in popularity, and we suggest that you should keep complete stocks in order to meet the large public demand. There are certainly no more popular selling lines than those mentioned—a popularity gained by the policy of providing sound value at all times.

Please Address all Correspondence to—

EDWARDS' HARLENE, Ltd.

20, 22, 24 & 26 Lamb's Conduit Street, LONDON, W.C. 1.

GIBBS'S COLD CREAM SOAP

Daily increasing in popular favour. See that you are well stocked.

Write for prices to

D. & W. GIBBS, Ltd., City Soap Works, London, E. 1.

Established 200 years.

THE "MILNER" Straw Hat Cleaner

SELLS WELL EVERYWHERE.

IT IS EASILY USED, AND GIVES COMPLETE SATISFACTION.

Price **2d.** a packet. Bonus of 6 packets given with each gross.

CHEMISTS' OPINIONS.
"It is really marvellous how this line sells."
"My customers speak highly of it."

NOTE.—Please see the trade mark and name on each package.

PRICE LIST.

3 dozen 4/- ...	2 gross 2½% ...	13 to doz. for cash
6 dozen 7/- ...	" gross 5 % ...	with order.
12 dozen 13/- ...	10 gross 7½% ...	Carriage paid.

Showcards, Window Slips, &c., supplied with each order.

Milner's Chemical Co., Liverpool

ERNEST JACKSON & CO.

Manufacturing Chemists. LIMITED.

Specialists in MEDICATED LOZENGES, PASTILLES, JUJUBES, COMPRESSED TABLETS, CAPSULES, PERLES, CACHOUS, BOILED GOODS, SALINES, &c. &c.

IMPORTERS of LIQUORICE JUICE and makers of THE ORIGINAL *cushion-shaped* LIQUORICE & MENTHOL PELLETS.

WORKS & OFFICES: CREDITON, DEVON.

LONDON DEPOT: Plantain Place, Crosby Row, BOROUGH, S.E.
—Telephone: HOP 2668—

TELEPHONE: CREDITON, No. 10. 1
TELEGRAMS: "JACKSON-CREDITON."

Preparing for Winter

Never in the History of Printing will Chemists find it more difficult to get their Orders executed than this coming Winter. Material and Labour is nearly exhausted, and we would **strongly urge our Customers** to place their **Orders at once**, and **not** to wait until they are wanting goods, as there is every probability of them not being executed if delayed.

We have everything you want at present.

Full Set of Samples to Colonies charged 10/6, which amount we credit for Order of £5 and upwards.

THOMAS WAIDE & SONS,
Medical Printers——LEEDS.

SAVE 3/- PER GALLON
BY BUYING
GUARANTEED GENUINE
NEWFOUNDLAND NON-FREEZING
MEDICINAL COD LIVER OIL
OF NEW SEASON'S MAKE.

Highest possible quality in smell, taste and colour, comparing most favourably with the finest Norwegian. Manufactured from the finest fresh Cod Liver on same day as fish caught.

WHOLESALE ONLY.

Kindly write for sample to

JOB BROS., Manufacturers, Tower Building, LIVERPOOL.

Telegraphic Address: "JOB LIVERPOOL." Tel. 1039 CENTRAL.

And of ST. JOHN'S, N.F. Established 1780.

B. BROWN & BRO. INC.

Importers and Exporters

DRUGS, CHEMICALS & VEGETABLE OILS

280 BROADWAY, NEW YORK, U.S.A.

"FLYBANE" W.D.O.

For industrial purposes.

"VERMIJELLI LIQUID"

For manure heaps. Kills maggots before the flies come into existence.

"GARDEN WASH"

A simple wash for growing plants.

Manufactured by S. BOWLEY & SON
Wellington Works, Battersea Bridge, S.W. 11.

Theobromine
Pure Alkaloid.

Theobromine
Sodio-Salicylate
(chemically the same as Diuretine).

Societeit voor Chemische Industrie Katwijk,
KATWIJK-AAN-ZEE,
HOLLAND.

SAM^L. LAMBERT & CO.,

14 MINCING LANE, LONDON, E.C.

Importers and Exporters.

First hands for all

Estd. 1870.

CRUDE DRUGS & ESSENTIAL OILS.

A few Specialities :—

ARABIC GUMS, CASCARA SAGRADA, ERGOT, CITRIC ACID, COD LIVER OIL, CREAM OF TARTAR, GLYCERIN, HONEYS, MESSINA ESSENCES, OLIVE OIL, PEPPERMINT OIL, QUININE, QUICKSILVER, RHUBARB, SARSAPARILLA, SHELLAC, TURPENTINE.

Sole Agents for :

Oils : Lemon, Bergamot, Orange ; Terpeneless Oils: Lemon, Bergamot, Orange.—*Fratelli de Pasquale & Co., Messina.*
Bay Rum and Bay Oil.—*Bornn, St. Thomas.*
Essential Oils, Drugs, Chemicals, &c.—*National Aniline & Chemical Co., New York.*

Two of the World's Face Powders.

POPULAR EVERYWHERE.

BOURJOIS'
Eyebrow Pencils,
Rouges, Perfumes,
Soaps, etc.,
always command a ready sale.

Bourjois' Java Powder.
Price 9/5 doz. ; 12 doz. 8/10. P.A.T.A. 1/- per box.

Bourjois' Poudre Manon Lescaut.
Price 25/1 per doz. P.A.T.A. 2/9 per box.

SOLID FACE POWDER (Poudre Compacte)

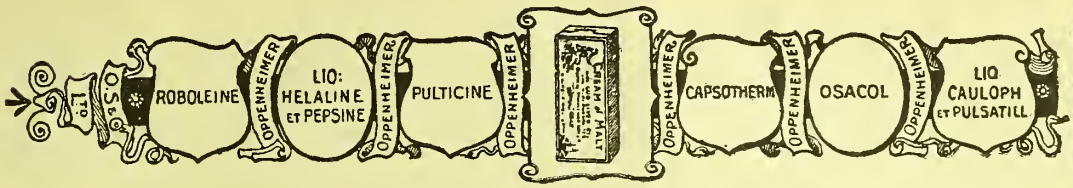
BOURJOIS of PARIS is the POWDER HOUSE.

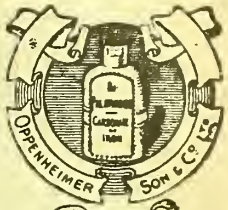
Our Solid Powder, with Puff, **No. 65, IS THE BEST.**

Made in Seven Tints. Rose, Naturelle, Rachel, Blanche, Rosette Brun, Ocree, and Mauve. **7/7 per doz.**

☛ DO NOT BE MISLED BY BUYING CHEAP AND WORTHLESS IMITATIONS OF THIS ARTICLE. ☚

HENRY C. QUELCH & CO., 4 & 5 Ludgate Square, LONDON, E.C. 4.





Two Excellent Preparations on the P.A.T.A.

ROBOLEINE

A delightfully palatable admixture of Malt, Red Bone Marrow, Juice of Calves' Rib Bones and Cream, with Hypophosphites of Sodium, Calcium, and Potassium, which has been adopted after severe clinical trials by many of the largest institutions in the country as an alternative to, and improvement on, Malt and Cod Liver Oil in palatability, digestibility, and influence on weight and general condition. Maltose, Diastase and Cream contained in the Cream of Malt account for its high value as a food digestive; Lecithin and Cholesterin from the calves' bones are both valuable metabolic agents and nerve foods; Calcium, Sodium, Potassium, and Phosphorus are elements necessary for building up and renewing wasted tissue; all these combine together to make it the finest preparation of its kind. It is invaluable as a reconstructive for reduced vitality caused by minor nerve troubles, worry and overwork, infantile diseases (croup, rickets), wasting diseases of all kinds (phthisis, anæmia), and as a food when convalescence is slow and difficult.

As a popular side line this preparation has many advantages.

1. **Yields good protected profits.**
2. **Highly recommended by the Medical Profession.**
3. **Supplied to Institutions at special rates in special containers.**
4. **Samples and literature sent to local Medical customers.**
5. **Is an improvement on Malt and Cod Liver Oil in taste, therapeutic value, and standard quality.**

OSACOL JELLY

An ideal palatable Laxative composed of 75 per cent. Petremol, a Russian Paraffin of exceptional quality, emulsified with our celebrated Cream of Malt and Honey, and slightly acidified to remove the unpleasant blandness usually associated with paraffin preparations. It acts as a mechanical lubricant, has no griping effect, is gentle and constant in action, of appropriate viscosity, and has been found of the utmost use in the constipation of pregnancy, of delicate patients after operations, and children.

A preparation of this nature is now in considerable demand, especially where liquid paraffin is rejected by the stomach. It yields good protected profits and can be recommended with confidence as a noster prep.

Write for special window show and Depot terms showing 65 per cent. profit.

OPPENHEIMER, SON & CO., LTD.,
179 Queen Victoria Street, E.C. 4.

Eburite Paper Co. Ltd.

AMBERLEY ROAD MILLS, PADDINGTON, LONDON, W.1

Manufacturers of

CORRUGATED PAPER

CORRUGATED BOXES

ALSO SUPPLIED IN CUT PIECES

Globular Embossed Paper

WAX PAPERS

All British Capital and Labour

"Seeing them reminds me"

Your window will jog many a memory and make many a sale if you display the undermentioned photographic favourites.

The 'WELLCOME' Photo Exposure Record

"Adopted by the U.S. War Department as the official exposure meter for photographers connected with the U.S. Army"

Solves all exposure problems for the holiday photographer

Trade terms: 12/0 per dozen less 30%, thirteen copies to the dozen

TRADE MARK 'TABLOID' BRAND

Photographic Chemicals

Show the complete series and meet all needs

See B. W. & Co.'s List. Write for prices. Showcards supplied

BURROUGHS WELLCOME & CO., LONDON

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ASPIRIN TABLETS.

ENGLISH ASPIRIN ONLY.

Each tablet contains 5 grs. Aspirin B.P. of the well-known make of Messrs. Pierson, Morrell & Co.

25's, 6/- per doz.; 100's, 20/- per doz.; 1000, 15/-

Prompt delivery with name and address. A selection of 30 varieties of Labels.

Referring to an Advertisement in the "C. & D." of June 9, we beg to state that our ASPIRIN TABLETS are *"absolutely free from Talc!"*

H. & T. KIRBY & CO., LTD. Write—Belton Rd., Willesden Green, London, N.W.2. Wire—Kirby, Limited, Willroad, London. 'Phone—Willesden 1412.

The *Lancet* describes it as "Mr. Benger's admirable preparation."

BENGER'S

GOLD MEDAL AWARDED HEALTH EXHIBITION, LONDON.

The *British Medical Journal* says: "Benger's Food has by its excellence established a reputation of its own."

FOOD FOR INFANTS

INVALIDS AND THE AGED.

Wholesale of all Wholesale Houses and Shippers or from the Manufacturers

BENGER'S FOOD LTD., Otter Works, MANCHESTER, Eng.

Branch Offices at: 117 Pitt St., Sydney, Australia; 90 Beekman St., New York, U.S.A. Canadian Agents: The National Drug and Chemical Co., Ltd., Montreal & Branches.

ON THE P.A.T.A.

SHOW

ZEPTO

Conspicuously by means of our "Telephone Girl" display in your window, and the "Tumbler" idea on your counter and sales are certain —no matter where you are situated.

Also returns increase for all other dental requisites as nothing competes with Zepto. Note the return on your outlay, too.

6 dozen orders supplied with "Telephone Girl" show, etc., also the usual reward for the window space. Orders executed in rotation, and accepted on that understanding.

P.A.T.A. 7½d. EACH.

PER **4/6** DOZ.

PROFIT 66⅔% MIN'M.

WILL YOU TRY A SHOW?

CHRISTY'S
OLD SWAN LANE
LONDON
E.C. 4

THE CHEMIST AND DRUGGIST

A Weekly Journal of Pharmacy and of the Chemical and Drug Trades.
ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official Journal of many Chemists' Societies in Australia, Ireland, New Zealand, South Africa, and the West Indies.

SUBSCRIPTION RATES.
Twelve Shillings and Sixpence a year in advance, post free to any part of the world, including a copy of *The Chemist and Druggist Diary* next published. Subscriptions may begin any month. Single Copy, 6d.; Summer or Winter Number, 1s.; *Diary* 3s. 6d. Postal orders and cheques to be crossed "Martin's Bank (Limited)."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 12s. 6d., franco.

Подписная цѣна на еженедѣльный журналъ съ приложеніемъ Годового Дневника—12 шиллинговъ 6 пенсовъ на годъ съ пересылкой.

Precio de suscripción anual: el periódico una vez por semana, y el agenda una vez por año 12 ch. y 6 peniques, franco.

Terms for advertising in THE CHEMIST AND DRUGGIST can be obtained on application to the Publisher at the

Head Office: 42 CANNON STREET, LONDON, E.C. 4.
Telegrams: "Chemicus. Cannon, London." Telephone 3617 Central (three lines).
Branches: ADELAIDE, MELBOURNE, AND SYDNEY, AUST.

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Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1917, p. 220.

(From "The Trade-marks Journal," July 4, 1917.)

"METZO LIMITED" over Swastika device; for photographic chemicals (1). By Metzo, Ltd., Scots Bridge Mill, Rickmansworth, Herts. 378,143. (Associated.)

"DURANTHRENE"; for dye-stuffs (4). By Claus & Co., Ltd., Crabtree Lane, Clayton, Manchester. 378,189. (Associated.)

Picture of statue of man; for surgical instruments, etc. (1), for perfumery, etc. (48), and for goods (50). By S. Maw, Son & Sons, 7-12 Aldersgate Street, E.C. 1. 377,398/99/100.

"PIONEER"; for first-aid outfits (1). By W. B. Phillips and W. E. Stratton, 19 Great Queen Street, W.C. 2. 377,905. (Associated.)

"ZITA"; for toilet-powders (48). By The Anglo-American Pharmaceutical Co., Ltd., 59 Dingwall Road, Croydon. 377,818.

"LUOL"; for dentifrices, etc. (48). By Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, E.C. 1. 377,823.

"PLUIE DE FLEURS" and "VISION DE L'INDE"; for perfumery, etc. (48). By The Standard Tablet Co., Ltd., Hove. 378,052/087.

"ZEKOS"; for all goods (48). By W. J. Doe, 130 Kingston Road, Merton Park, Surrey. 378,133.

(From "The Trade-marks Journal," July 11, 1917.)

Statue of Teucer holding bow; for medicinal chemicals (3). By S. F. Body, 167 High Street, Southend-on-Sea. 376,930.

Circular device enclosing cross formed of word "HENRY" ("Henry" disclaimed); for medicinal chemicals (3). By A. C. Henry, 19 St. Dunstan's Hill, E.C. 3. 377,708.

European War News.

Import and Export Notices.

FRANCE.—The British Chamber of Commerce in Paris has passed a resolution urging the abandonment by the British and French Governments of the recent import restrictions placed upon traders in both countries, and pointing out that the advantages accruing from the reduced tonnage are far outweighed by the complete dislocation of Anglo-French trade that has resulted.

SPAIN.—The Board of Trade are in receipt of copy and translation of a Spanish Royal Order published in the "Gaceta de Madrid" for July 5, which prohibits the exportation of olive oil from Spain until November 15 next. The prohibition is not, however, to apply to refined olive oil (accompanied by a certificate testifying that the acidity of the oil is not greater than one degree), nor to consignments of oil which were ready for shipment from Spain at the date of publication of the Order.

SWEDEN.—The export of mica (unmanufactured or pulverised, also coloured manufactures thereof, not specially mentioned) and ethers of all kinds is prohibited.

UNITED KINGDOM.—The Board of Trade suggest to British exporters engaged in sending goods to neutral European countries the desirability of concluding their contracts on a f.o.b. (instead of a c.i.f.) basis where the goods can only be exported under licence, having regard to the fact that it is frequently made a condition of the issue of such a licence that the goods must be carried in neutral vessels.

Personalia.

SIGNALLER L. G. SMEDLEY, Northants Regiment, who was an apprentice with Messrs. Blunts, chemists and druggists, Northampton, is posted as "missing" on the Western Front.

CORPORAL W. FORD, R.S., has been awarded the Military Medal for gallantry in a bombing raid. Before the war he was with Raimes, Clark & Co., Ltd., manufacturing chemists, Leith.

MR. JOHN A. SHEARER, one of the Scottish representatives of The British Drug Houses, Ltd., London, who returned from the Front early this year, has been gazetted second-lieutenant in the Gordon Highlanders, after having spent some months with an O.T.C. at Oxford. Lieutenant Shearer is the son of the late Mr. John Shearer, J.P., banking agent, Frazerburgh.

MAJOR GEORGE PATON POLLITT, Royal Engineers, Blackburn, who received the Distinguished Service Order in January, has now been awarded a bar to the decoration for conspicuous gallantry and devotion to duty. When war broke out he gave up a responsible position with Brunner, Mond & Co., Ltd., and went out to France as a despatch-rider, obtaining rapid promotion.

Miscellaneous.

ENEMY PATENTS.—Morton Sundour Fabrics, Ltd., Carlisle, are applying for the avoidance or suspension or the grant of licences to use seventeen enemy patents for dyes, also for licences to use twelve applications or patents vested in the custodian of enemy property. The hearings are on August 2.

PICRIC ACID.—An Order in Council has been made repealing Paragraph (*b*) of Article 2 of the Order in Council dated March 27, 1905, by which picric acid, when the quantity does not exceed 2,000 lb. in any one ship, boat, carriage, building, or place, is under certain conditions exempted from being deemed to be an explosive within the meaning of the Explosives Act, 1875. Circumstances have since arisen which render it expedient in the interests of public safety that the exemption be withdrawn.

Gazette.

Partnerships Dissolved.

GROSSMANN, E., and MOGG, E. H., 9 James Street, Oxford Street, W., chemists, druggists, and perfumers, under the style of Louvain Pharmacy.

PLEWS, F. H., and WILSON, R., Sharratt Street Works, Canterbury Road, S.E., manufacturing chemists, under the style of F. H. Plews & Co.

POSTLETHWAITE, R. G., and STEVENS, H., 7 Regent Road, Morecambe, chemists, druggists, and photographic dealers, under the style of Stevens and Company.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Weights and Measures Regulations.

Under Regulation 84 of the Weights and Measures Regulations, 1907, the equal-armed weighing-instrument of a capacity not exceeding 1 cwt., with pans above the beam, specially designed for counter-use, and known as an "accelerating counter-machine," was not to be stamped, but was allowed to be in use for ten years. This period would have expired this year, but under an additional regulation made this month the period of allowance of ten years has been continued for the duration of the war and twelve months thereafter.

Institute of Chemistry.

The results of the examinations recently held in London, Dublin, and Johannesburg are as follows:—*Intermediate Examination*: E. R. Baines, (Miss) Ella Caird, W. H. Craven, B.Sc. (Lond.), and A. J. Dando. *Final (A.I.C.) Examination*: H. J. Hegan, B.Sc. (Lond.), in mineral chemistry; A. J. Hall, B.Sc. (Lond.), and S. J. Rogers, B.Sc. (Lond.), in organic chemistry, and H. Jephcott, B.Sc. (Lond.), in the chemistry (and microscopy) of food and drugs, fertilisers and feeding-stuffs, soils, and water. *Final Examination for the Fellowship*: H. R. Adam, B.Sc. (Aberd.), in metallurgical chemistry; and George Taylor, in the chemistry of food and drugs, etc.

The Progressive Pharmacy Club,

which was referred to last week (p. 44), has now been formed with the following objects:

1. To stimulate co-ordination of effort on progressive lines, by promoting such unity of action as can be secured by co-operation of the different pharmaceutical interests.
2. To keep in close touch with all matters affecting pharmacy, through the medium of a capable Advisory Committee embracing all interests, supplemented by the activities of local correspondents in all parts.
3. To pursue an active publicity propaganda, promote necessary reforms, and provide speakers for pharmaceutical meetings on subjects that require serious attention.
4. To promote the candidature of progressives at pharmaceutical elections, stimulate progress in pharmacy through the agency of representative and official bodies, and strive to secure adequate State recognition of pharmacy in all public services.
5. To investigate and publish reports on important problems affecting pharmacy, pointing out what has been accomplished and what it is possible to accomplish by action on right lines.
6. To conduct an Information Bureau for the collection and dissemination of accurate information on matters of scientific, technical, educational and trade interest; to compile and publish a uniform Tariff for guidance in business, and to keep a Register of Vacancies and Assistants.
7. To take a practical interest in the welfare of the junior members of the craft, endeavour to establish better relations between employers and employed, and take steps to render all possible assistance in case of need to members of the Club.

The Club is to open on August 1 at the headquarters, the Arundel Hotel, Victoria Embankment, London, W.C. 2, and the first meeting of members is to be held on October 2. The subscription is: Town members, 21*s.*; country members, 12*s.* 6*d.* Mr. John Humphrey, 65 Park Road, Battersea, S.W. 11, is the Secretary, and from him can be obtained application-forms for membership and other information.

Guardians' Affairs.

The Local Government Board have informed the Southwark Board of Guardians that they are not prepared to sanction the appointment of a Buying Committee, as it would be a greater departure from the Contract and Tenders Order than is necessary under existing circumstances. The intention of the Guardians was that this Committee should have power to buy stocks in the open market, or direct from the manufacturers without advertising for tenders for them in the ordinary way. The Board however, added that they would have no objection to all goods purchased by the Guardians being received at and distributed from one of their institutions, if the Guardians considered this would tend to economy and better control.

The Southwark Board of Guardians have received a letter from Mrs. Dunstan, the wife of Mr. J. F. Dunstan, dispenser at the Northern Relief Station, who joined the forces as sergeant dispenser in May 1915, pointing out that the Board had granted a war bonus of 5*s.* a week to all permanent officials of her husband's standing, and asking that the same might be extended to her. Mr. Dunstan's salary was 190*l.* per annum, and he is receiving this from the Guardians, *minus* his pay and separation allowances. The Board have decided, subject to the approval of the Local Government Board, to pay him the extra 5*s.* a week from January 1. They have also decided to appoint Mr. W. E. Miller as temporary dispenser for three weeks during the absence on leave of Miss Flood, at a salary of 3*l.* 3*s.* a week.

Contracts.

The London County Council has accepted the following tenders for three months' supplies: Drugs (sixteen firms invited to tender), Baiss Bros. & Co., Ltd., estimated value 161*l.*; Burgoyne, Burbidges & Co., Ltd., estimated value 409*l.*; Thos. Hodgkinson, Prestons & King, estimated value 161*l.*; May & Baker, Ltd., estimated value 636*l.*; W. G. Taylor; estimated value 13*l.*; Willows, Francis, Butler & Thompson, Ltd., estimated value 45*l.* Vinegar (seven firms invited to tender), W. G. Spitty & Co., Ltd., estimated value 140*l.* The contract of W. H. Palmer & Co., Ltd., for methylated spirits has been continued from July 1, 1917, to December 31, 1917, at increased prices.

The following contracts were notified by the War Office during June: *Apparatus and Accessories, X Ray.*—F. R. Butt & Co., Ltd.; Cavendish Electrical Co., Ltd.; H. W. Cox & Co., Ltd.; A. E. Dean; Edison & Swan United Electric Light Co., Ltd.; Everett, Edgcumbe & Co., Ltd.; Medical Supply Association; Watson & Sons (Electro-Medical), Ltd.; White Electrical Instrument Co. *Calcium Carbide.*—British Carbide Factories, Ltd. *Chemicals and Fittings.*—Baird & Tatlock (London), Ltd.; C. Hearson & Co., Ltd.; H. Levin, Webb & Co.; London Chemical-works, Ltd. *Disinfectants.*—J. Bell, Hills & Lucas, Ltd.; Burt, Boulton & Haywood, Ltd.; Jeyes' Sanitary Compounds Co., Ld.; Killgerm Co., Ltd. *Medicines.*—Bleasdale, Ltd.; Brook, Parker & Co., Ltd.; Brunner, Mond & Co., Ltd.; Burgoyne, Burbidges & Co., Ltd.; Burroughs Wellcome & Co.; W. B. Cartwright, Ltd.; Davies, Sons & Co.; Evans Sons Lescher & Webb, Ltd.; H. C. Fairlie & Co., Ltd.; Howards & Sons, Ltd.; Johnson & Sons (Manufacturing Chemists), Ltd.; T. Kerfoot & Co.; H. & T. Kirby & Co., Ltd.; T. Morson & Son, Ltd.; Parke, Davis & Co.; Southall Bros. & Barclay, Ltd.; Stafford Allen & Sons, Ltd.; Standard Tablet and Pill Co.; J. Tye & Son; T. Tyrer & Co., Ltd.; Whiffen & Sons, Ltd.; Willows, Francis, Butler & Thompson, Ltd. *Methylated Spirit.*—Bellingham & Co., Ltd.; J. Burrough, Ltd.; Davis Bros.; Jones & Co.; Kitchener Co.; C. Orme & Co.; Sutton, Carden & Co., Ltd.; J. & J. Vickers & Co., Ltd. *Surgical Instruments and Materials.*—Allen & Hanburys, Ltd.; Arnold & Sons; J. Bell & Croyden, Ltd.; A. Berton, Ltd.; A. Browne, Ltd.; Carnegie Bros.; H. G. Carsberg & Son; Cottrell & Co.; Coxeter & Son; Cuxson, Gerrard & Co., Ltd.; Down Bros., Ltd.; General Surgical Co., Ltd.; W. Gowlland (1916), Ltd.; F. H. Hallam & Son, Ltd.; J. L. Hatrick & Co., Ltd.; G. Haynes & Co.; Imperial Patent Wadding Co., Ltd.; Landau & Rosen; B. Lees & Co., Ltd.; H. Lewis; J. Lingard, Ltd.; Liverpool Lint Co., Ltd.; S. Maw, Son & Sons, Ltd.; Mayer & Meltzer; G. F. Merson & Co.; G. Oldfield & Sons; Robinson & Sons, Ltd.; Siebe, Gorman & Co., Ltd.; T. J. Smith & Nephew, Ltd.; Southall Bros. & Barclay, Ltd.; Springfield Mill Co.; Surgical Supply Association; J. Tye & Son; Vernon & Co., Ltd.; T. J. Weeks & Sons, Ltd.; J. Weiss & Son, Ltd.

Birmingham.

Mr. Wilfred Hill has been taken to task by the Chairman of the Assessment Committee for his speech on "The Rating Scandal of Birmingham."

Enormous extensions are going on in local chemical-works. This is shown by the advertisements which are appearing for bricklayers and carpenters for constructional work.

The annual meeting of the directors of Philip Harris & Co. was held on July 24. Mr. R. W. Muscott, chemist and druggist, Acocks Green, Birmingham, who has been connected with the business for some years, was appointed to a seat on the board. Mr. R. E. Shorthouse, brother of Mr. H. S. Shorthouse, the managing director, was re-elected.

The King's Heath Highfield Cricket Club secured a victory over their old rivals the King's Heath Club for the first time last Saturday (July 21), Mr. B. Gretton Watson, chemist and druggist, Alcester Lanes End Pharmacy, being top scorer for the Club with 38 runs to his credit. Mr. Willey, of Philip Harris & Co., took five wickets for 38 runs.

A prominent advertisement appears in the "Post" on the treatment of venereal diseases under the scheme of the Worcester County Council. Treatment is to be given free, either at the Worcester Infirmary, the Kidderminster Infirmary, or the Guest Hospital, Dudley, and the strictest secrecy will be observed. Information as to the facilities provided can be obtained from the County Medical Officer, Shire Hall, Worcester.

Pharmacists were not present in force at the annual meeting of the Society of Chemical Industry, but among those present were Alderman F. C. Clayton, Ph.C., who accompanied the Lord Mayor; Messrs. E. W. Mann, A. E. Southall, Ernest Canning, J. W. Cotterill, and F. H. Alcock. The Congress was a great success, and passed off without a hitch, thanks to the Local Secretary and Treasurer, Mr. F. R. O'Shaughnessy.

Liverpool.

Mr. H. Humphreys Jones is spending his vacation in North Wales.

Liverpool and Birkenhead pharmacists have met in a golf-match, with even results.

Mr. Septimus Castle (Messrs. Whitley & Co., solicitors), who has recently passed away, was solicitor to Evans Sons Lescher & Webb, Ltd.

Mr. J. Allen Shaw, L.D.S., eldest son of Mr. A. Shaw, pharmacist, Green Lane, Stoneycroft, Liverpool, has been granted a dental commission. He had previously served for fifteen months as a gunner in the R.F.A.

"I am doing a greater volume of business than ever, but the margin of profits has been so much reduced that my income is far less than for many years in the pre-war period. In saying this I am not taking account of the increased taxation, which whittles down my income to a point making my trade returns look remarkably small in comparison with my turnover. In my opinion the sooner one approximates to pre-war conditions the better." The speaker was a central area pharmacist of over thirty years' standing.

"Xrayser II." and "Sigma" were followed with much interest in the *C. & D.* last week in their references to the co-operation of wholesalers and retailers. The Liverpool Chemists' Association took, nearly two years ago, what may have seemed to some Associations a leap in the dark by electing a wholesaler as President, but the choice was ratified, a year later, by the re-election of Mr. William P. Evans. His colleague, Mr. Lescher, raised the whole subject of the inter-relations of the two branches of the trade in a memorable and educative paper, the work of a pharmacist and wholesaler of wide experience. Liverpool's lead will not be forgotten.

Mr. Max Muspratt (United Alkali Co.), in his private capacity and not as Lord Mayor of Liverpool, presided on July 24 at a commercial gathering held at the Exchange Station Hotel to inaugurate a local branch of the Federation of British Industries. In the absence of Lord Leverhulme and Sir Edward Evans, Mr. Muspratt (who accepted the chairmanship of the branch) delivered the chief address. He said the United Alkali Co., the Salt Union, the Pearson & Knowles Coal and Iron Co., and many other large enterprises are associated with the Federation. He hoped the Federation would be a means of conducing to united policy and action by manufacturers, thus restoring the prestige of British manufacturers abroad and fostering cordial co-operation at home. He was glad to know that during the war the relations between manufacturers and their workmen had been enormously improved. As a Free Trader himself, he hoped to see Free Traders and Prohibitionists mutually agreed upon a policy which might be effective. High ideals should be adopted.

Manchester.

Over 200 of the Dublin unemployed who were sent by the Labour Exchange to the chemical-works at Blackley, Manchester, have returned to their homes. It is stated that when they arrived at the works a trade-union representative told them that most of them were of military age, and if they started work the men already in employment would strike. The Irishmen then demanded their return fares and a week's wages, which they received, and they then returned to Dublin.

There are a number of smart window-displays in the suburbs at present. A Fallowfield pharmacist has a striking display of a well-known health saline, set out in quite an original manner. The window-show should make sales easy. Two pharmacies in the vicinity of Oxford Road have displays of Zepto, the "tooth-pencil of repute," one of the windows containing three mirrors with a notice in the centre, "Just Look in the Mirror," "Are your Teeth White?" "If not, Use a Zepto Pencil."

Sheffield.

At the annual Conference of the National Association of Medical Herbalists held at Bolton, Sheffield was represented by Messrs. T. Tildesley (President), J. S. Ward, and H. R. G. Skelton (Secretary). The last-named was re-elected to the Council of the Association.

Mr. T. L. Holleley, Ph.C., recruiting officer for Retford, made some strong remarks on the way some people have of securing exemption. He pointed out that of a family of eight or nine eligible persons not one had joined the Army, but when exemption had been refused someone at Newark obtained exemption for these people. The Tribunal decided to wire the War Secretary and the Director of Recruiting.

Messrs. H. G. Williams, E. Preston, and H. Antcliffe, as representatives of the local chemists, waited upon the Town Clerk with a view of securing adequate representation on the Committee dealing with the administration of the Venereal Disease Act. At the present time only members of the City Council and the Sanitary Committee are acting, but if outsiders are added favourable consideration is promised to the chemists.

Miscellaneous.

FIRE.—Early on July 24 extensive damage was caused by fire at 83 Gloucester Road, Kensington, occupied by Lewis & Burrows, Ltd., chemists.

IMMATURE-RUM ORDER.—This Order (No. 709, 1917), which amends the Immature-rum Order, 1916, by altering the time-limits on the storage and delivery of certain imported rum.

POISON-LICENCE WANTED.—The Town Clerk of the Southend Corporation reported that an application had been received from Mr. Uber, of Gregories Fertilisers, Ltd., Leigh, for a poison-licence.

EXPLOSIVES ACT.—At Pontefract on July 21, Mr. W. E. Milburn, chemist and druggist, Knottingley, was fined 10*s.* for having more than 50 lb. of gunpowder on his premises otherwise than in a fireproof safe.

THEFT.—At Crewe on July 17, two lads, named Harold Dytor and William Joinson, were bound over on a charge of theft of a bag and 10*l.* 8*s.* 8*d.* from the premises of Mr. James Mavor, chemist and druggist, Hightown, Crewe.

LENS-MAKING CLASSES FOR WOMEN are being started at the Northampton Polytechnic Institute, London, E.C. The training is intended to fit women to make optical work for telescopes, periscopes, range-finders, etc. The classes are free to selected candidates.

THE offices of the Department of Scientific and Industrial Research (including the Fuel Research Board) have been transferred to 15 Great George Street, Westminster, London, S.W. There will be no change in the telephone number, Victoria 7940 (two lines).

VOLUNTEER MOVEMENTS.—*The Pharmacists' Volunteer Corps* will parade at 10 A.M. on Sunday, July 29, at the Imperial College Union, South Kensington, S.W., for drill, etc. *The United Arts Rifles (Pharmacists' Company)* will parade at the Imperial College Union at 10 A.M. on July 29. Other orders for the week are: July 31, at 8.45 P.M., Officers' and N.C.O.s' Instruction Class; August 1, at 3 P.M., No. 2 Platoon, drill; August 2, at 3 P.M., Nos. 1, 3, and 4 Platoons, drill.

POISONINGS.—The cases reported since last week include the following: An ex-soldier named Berg was found dying in a lavatory at Cambridge Circus, London, W. By his side was a 1-oz. phial of cocaine solution and a hypodermic syringe. The Coroner's officer said that Berg called on a doctor in Clapham Road and obtained from him a prescription for an ounce of cocaine solution, which was supplied by a chemist a few yards from the doctor's house. The doctor had never seen him before. The Coroner commented in strong terms on the ease with which Berg had obtained such a dangerous drug. A verdict of "Suicide" was returned.—A Rickmansworth lady named Hamel committed suicide with bromidia and sulphonal while temporarily deranged.—From Hull a death is reported, apparently from barium sulphate administered for *x*-ray examination purposes. The inquest was adjourned to enable an analysis to be made.

FALSE-PRETENCES CHARGE.—At Bilston on July 17, Simeon S. Bissell, of 4 Brook Road, Woodsetton, was summoned for obtaining by false pretences six dozen tins of Sanaphos, value 6*l.* 6*s.*, from the British Milk Product Co., London, and a cask containing 200 lb. of acetanilide, value 32*l.* 10*s.*, from Mr. Henry Hibbert, manufacturing chemist, of London. Defendant applied for samples of sanaphos, and afterwards sent an order for goods on a printed note-heading "The Wood Brook Drug Co., Wren's Nest Works, Woodsetton, Dudley." Prosecutors despatched the goods, but on applying for payment defendant returned their letter, upon which he had written that he had closed down owing to the war, was living in lodgings, was not in a position to pay, and had no effects. Later, it was alleged, he ordered acetanilide from Mr. Hibbert, and when pressed for payment he wrote that he had no effects or any money with which to file his petition. Defendant was committed to the Quarter Sessions, bail being allowed.

Irish News.

Brevities.

Mr. Walter Thorpe, Dublin, has been appointed analyst to the Abbeyleix Guardians at a salary of 20*l.* per annum.

The Limerick chemists' assistants have affiliated themselves with the local Trade Union workers, and Mr. P. J. Coffey is their delegate.

In addition to Sir Wm. Whitla, Sir Bertram Windle, another medical man, has been nominated by the Government to serve on the Irish Convention.

Mr. J. N. Hardy, Ph.C., proprietor of the City of Dublin Drug Hall, Lower Sackville Street, Dublin, has been appointed director of Unity Buildings, Ltd., a commercial enterprise registered with a share capital of 10,000*l.*

At co. Antrim Assizes held at Belfast on July 18, John McQuitty was sentenced to six months' imprisonment for the larceny of petroleum belonging to the American Petroleum Co., and for a series of embezzlements of money, amounting to 114*l.* 17*s.* 11*d.*, the property of his employer, Mr. John A. Woodside, druggist, Ballymena.

At Strabane last week, James T. Elliott, trading as Elliott & Co., was summoned for having sold cream of tartar which was certified to contain lead in excess of that allowed by the British Pharmacopœia. The defence was that the article was sold as received from the wholesale firm, and the Magistrates dismissed the case.

At Derry Assizes, before Mr. Justice Dodd and a special jury, Mr. James Hill, Ph.C., Strabane, was awarded 2*s.* 6*d.* damages against Mr. J. C. Craig, auctioneer, Ballindrait, co. Donegal, for having used slanderous words towards him. The slander was to the effect that Mr. Hill was a robber, and had robbed his sister and her two small children as executor of the estate.

At a meeting on July 20 of the Guardians of the South Dublin Union a resolution was passed asking the Irish Chemists' Assistants' Association, who wrote stating that the members are affiliated with the Dublin Trades' Council, to send them the names and addresses of the unemployed assistants, and the Board would endeavour so far as possible to give a preference to the members of that Society for employment as compounders.

Mr. Hogan, President of the Irish Chemists' Assistants' Association, informed the Dublin Press on July 21 that the Committee of that body had declared a strike at Hamilton, Long & Co., Ltd., Dublin, as the result of a refusal to grant the members of the Association in their employment an increase on pre-war salaries. Negotiations took place during Saturday, however, and later it was intimated that the dispute had been satisfactorily settled, the arrangement including the recognition of the Assistants' Association, which was one of the issues involved. The assistants asked also for an increase of 12*l.* per annum as from June 1; all the demands have been conceded.

Scottish News.

Brevities.

The affairs of Mr. Samuel Lawrence, chemist, Oban, have been placed in the hands of a trustee, and a meeting of creditors has been called. The cessation of holiday trade and shortness of staff have caused the difficulties in which Mr. Lawrence finds himself.

Messrs. Hunter (Dunblane) and Thomson, Doune, and Scott (Callander), chemists, have submitted a report to the Western District Committee of Perth County Council, showing that the virus destruction of rats scheme has been a decided success. The Committee propose to renew the scheme and to lay down virus in November and March.

Edinburgh.

Health saline, in spite of high prices, is in excessive demand.

Gazogene-charges are now being retailed at from 9*d.* upwards.

Chemists in several districts observed Wednesday, July 25, as a holiday.

Many suburban pharmacies have been closing nightly at 7 o'clock for some time.

Dr. J. W. Senter, formerly in business locally as a chemist and druggist, is on war service.

A soldier asked for a box of "gun-fire" the other day at a local chemist's—this, he explained, being an Army synonym for tooth-powder.

Mr. J. G. Robb, who was formerly town traveller with John Mackay & Co., Ltd., has been for some time in the Royal Flying Corps.

A speaker at a garden *fête* in aid of the Sphagnum Moss Branch Depôt claimed that to Scotland is due the credit of having discovered the value of sphagnum for surgical purposes.

Certificates by medical practitioners, showing that certain troubles have been caused or aggravated by the bread now supplied, have been laid before the local Public Health Committee.

Canadian soldiers evidently are great believers in the virtues of hydrogen peroxide. "We use it over there for all sorts of things," said one to a chemist who asked concerning its frequent purchase.

The chemist who used to make his own syrups is the man who feels the sugar scarcity most. Wholesale houses, as a rule, are endeavouring to supply customers with half the quantity of all syrups that were purchased in 1915.

A boy employed by a chemist, attempting to pave the way for an increase of wages, mentioned that a lad of his own age is receiving 32*s.* 6*d.* weekly, or rather more than thrice the amount the pharmacist pays. Inquiries proved this to be a fact, the highly paid labourer being employed to deliver hundredweight sacks of coal.

Glasgow.

A Glasgow doctor is suing the husband of a patient at the Dunoon Sheriff Court for 35*l.* 14*s.* professional fees. Defendant's wife died after an operation for the removal of a tumour, and he refuses to pay because he only consented to an operation for the removal of piles.

One wonders why the old trading method of helping charities practised during the South African War has not generally been adopted. One method was the giving of a ½*d.* on every tablet of soap, or such like, sold by retailers. The Vinolia Fund was an outstanding example of this.

Chemical-ware Exhibition.

In connection with the annual meeting of the Society of Chemical Industry, held last week in Birmingham, there was held a small but interesting exhibition of chemicals and chemical apparatus. These were shown in the lecture-room of the University, in Edmund Street. As a comment on the exhibition, it may be stated that British manufacturers have risen to the occasion, and that many of the goods are far better than the enemy products which they are designed to replace.

Philip Harris & Co., Ltd., had a large display of chemical apparatus, under the superintendence of Mr. Lorton, who was also responsible for an excellent show of laboratory porcelain sent by the *Worcester Royal Porcelain Co., Ltd. Doulton & Co., Ltd.*, had a display of Lambeth laboratory ware, which, after critical examination with the eye or a Coddington lens, can be pronounced excellent. *A. Gallenkamp & Co., Ltd.*, sent electric furnaces. Several of these were in operation, and were the envy of those who have to swelter in laboratories where gas-muffles are employed. *Messrs. Shanks*, Barrhead, had some massive specimens of ware for use by manufacturers and in laboratories. *Standley, Beleher & Mason, Ltd.*, had an excellent display of glass apparatus of all kinds. The calibrations were carried to a degree of fineness unheard of previously. This company also exhibited the Spencer microscopes and the pottery of *Messrs. Macintyre*, Burslem, whose excellent mortars and pestles have been known in pharmacy for generations. The glaze of the laboratory ware is A1 for uniformity, elasticity, and power of withstanding shock. *J. Barcham Green & Son* displayed many varieties of their filter-papers, which effectually replace Continental brands of such goods. Liberal samples were being handed out to the visitors for trial. *W. & J. George, Ltd.*, who also own the business of *F. E. Becker & Co.*, showed balances and chemical apparatus. These companies exhibited a massive Curie balance made by the *Produits Chemiques Centrale*, Paris, and a great variety of the most recent physical apparatus for use in works and laboratories. *Southall Bros. & Barclay, Ltd.*, got together a really fine display, the chief object of which was to show the enormous strides which Britishers have made in the art of glass-blowing. Mr. Partridge, the manager of the Easy Row department, effectively brought out this point. *Hind & Lund, Ltd.*, displayed ball mills for grinding and mixing all kinds of chemicals, drugs, and powders. The substances are reduced to impalpable powders without bolting. Among other exhibitors were the *Kestner Evaporator and Engineering Co., Ltd.*, showing homogeneous lead-lined tubes and elevators for use with corrosive acids.

Legal Reports.

A Soda Deal.—In the Lord Mayor's Court, London, on July 23, T. W. Watson & Co., chemical-merchants, 23 and 24 Eldon Street, London, E.C., sued J. Chapman & Co., Ltd., Leadenhall Street, E.C., to recover damages for breach of contract to deliver 10 tons of washing-soda. Difficulties arose in regard to delivery, and the claim of a sub-purchaser had to be met by plaintiffs. By washing-soda plaintiffs understood soda crystals containing 98 per cent. of carbonate of soda and 2 per cent. of sulphate of soda. Defendants contended that washing-soda and soda crystals are different articles, the former being cheaper. The Common Serjeant, in giving his decision, said he thought the plaintiffs were entitled to damages. There was some difference, he thought, between "Chapman's washing-soda" and "soda crystals," and for this he made an allowance of 5*l*. The result he came to was that the plaintiffs were entitled to 20*l*. damages. There would be judgment for the plaintiffs for that sum, with costs. The amount of the judgment would include the money paid into court, for which there would be an order to pay out to the plaintiffs' solicitor.

Export Licences.—At Westminster on July 21, Evans Sons Loscher & Webb, Ltd., wholesale druggists, Hanover Street, Liverpool, were summoned for presenting a statement and declaration incorrect in material particulars for the purpose of obtaining an export licence. Mr. Travers Humphreys, prosecuting on behalf of the War Trade Department, said it was not suggested that anyone in the employ of the company intended to deceive the Department or do harm to the country, but business houses must take the fullest precautions to send in absolutely correct returns. The summons related to an application to export clinical thermometers to Uruguay, the statement being that they were actually manufactured and ready for shipment, when such was not the case. Mr. Parfitt, K.C., said the firm applied for about 1,000 licences a month—some 30,000 to 40,000 licences had been obtained since the outbreak of war—and there had only been two mistakes, a not unreasonable margin of error considering the difficulties caused by dilution of labour. The directors expressed the greatest regret, and gave the assurance that every possible care would be taken in future. Mr. Francis observed that there was a great deal to be said on behalf of the defendants, and happily there was no suggestion of any kind that the goods were likely to get in the hands of the enemy. He imposed a fine of 150*l*., and ten guineas costs.—At the same court on July 25, Alexander Hekiman, trading as Alexander & Co., 7 Charing Cross Mansions, was summoned for making a false declaration for the purpose of obtaining an export licence. Defendant's application related to the export of 20,000 clinical thermometers to Italy, and he stated that these were ready for shipment, whereas he did not know whether they were manufactured, but thought they could be obtained. Defendant was fined 200*l*., and ten guineas costs, or three months' imprisonment in default.

Tenancy Question.—At Swindon County Court on July 18, Richard Waldegrave, Bridge Street, Swindon, managing director of a chemists' company, sued Thomas Painter, 56 Cricklade Road, Gorse Hill, drug-store proprietor, for 8*l*. 8*s*. rent, for possession of the premises, and for 8*s*. per week up to the date at which possession is given. For the plaintiff, Mr. Withy said the only difference appeared to be one of tenancy, the defendant contending that it was a yearly tenancy. Plaintiff was not entitled to possession under the Courts Emergency Act unless possession was required for a special purpose. Plaintiff purchased the house and shop in May this year with the object of carrying on the business there of chemist, with a qualified chemist in charge. In reply to an observation from the Judge, Mr. Withy said plaintiff was not a rival tradesman, as there is a material difference in the class of trade. The Judge remarked that it seemed that the premises had been bought for the purpose of turning the man out. Mr. Waldegrave, in the witness-box, said he intended to open a branch on the premises, with a qualified chemist in charge. The Judge said he was satisfied that it was a weekly tenancy. Under the Act a man who is a tenant under a certain rental cannot be turned out unless for certain reasons—that he is a nuisance or annoyance to the neighbours, or that the premises are required for occupation by the owner or some other person. Defendant had no reason to think he would be turned out, but suddenly plaintiff came on the scene. He is a chemist, and carries on several branches. He said, "This shop will suit me." He proceeded to purchase the premises and order the tenant to leave. He gave a week's notice, and the tenant was expected to get out with his stock. He (the Judge) did not consider the request a reasonable one, and in the circumstances he should hold that the premises are not reasonably required by the plaintiff. Judgment was accordingly entered on the terms that the tenancy is weekly, that defendant owes 8*l*. 8*s*. rent up to the date of notice, and up to quarter-day 10*l*. 8*s*. in all, but that the request for possession by the plaintiff is not reasonable.

New Companies
and Company News.

P.C. means Private Company and R.O. Registered Office.

BRITIONA CHEMICALS, LTD. (P.C.).—Capital 5,000*l*. Objects: To carry on business as manufacturers of and dealers in chemical products and substances, etc. R.O., 42 Spring Gardens, Manchester.

S. S. WHITE CO. OF GREAT BRITAIN, LTD. (P.C.).—Capital 100*l*. Objects: To carry on business as manufacturers of and dealers in artificial teeth, dental appliances, apparatus, accessories, etc. R.O., 11-12 Clements Inn, London, E.C. 4.

RESEARCH DRUGGISTS, LTD. (P.C.).—Capital 1,000*l*. Objects: To carry on the business of chemists, druggists, drysalters, oil and colour men, manufacturers of and dealers in photographic requisites, etc. Solicitor: P. G. C. Shaw, 4 Clements Inn, London, W.C. 2.

ALFRED WHITE & SONS, LTD. (P.C.).—Capital 5,000*l*. Objects: To take over the business of manufacturing chemists carried on by P. T. White and P. W. White as Alfred White & Sons at 28-31 Allen Street, Goswell Road, London, E.C., and at West Drayton, Middlesex. Solicitors: Reynolds & Son, 7 Arundel Street, London, W.C.

PENCAR MANUFACTURING CO., LTD. (P.C.).—Capital 1,000*l*. Objects: To take over the business of the Pencar Manufacturing Co. and the trade-mark and recipes for a tonic-food preparation known as "Pencarvita," and to carry on the business of chemical manufacturers and dealers, chemists, etc. R.O., 10 Victoria Parade, Kew Gardens, Surrey.

MARTAPOERA RUBBER ESTATES, LTD. (P.C.).—Capital 75,000*l*., in 2*s*. shares. Objects: To acquire any grants, concessions, leases, and rights in South-East Borneo, Dutch East Indies, and elsewhere, planters and producers of and dealers in rubber, pepper, camphor, aloes, cinchona, etc. Solicitors: Mayo, Elder & Co., 10 Draper's Gardens, London, E.C.

ROBERT BARKER & SONS, LTD. (P.C.).—Capital 1,000*l*. Objects: To take over the business of makers and merchants of "Atkinson & Barker's Royal Preservative," carried on as Robert Barker & Son at 11 Russell Street, Manchester; also to carry on the business of chemists, druggists, etc. Agreement with Annie Hewitson and Nora I. Price James. Solicitors: A. & G. W. Fox, Manchester.

UNITED ALKALI CO., LTD.—An interim dividend of 1*s*. per share has been declared, being the same as in 1916.

THE NEW TRANSVAAL CHEMICAL CO., LTD., have declared an interim dividend for the half-year ended December 31 of 3 per cent., less tax, on the cumulative first preference shares, and of 4 per cent., less tax, on the cumulative "A" preference shares.

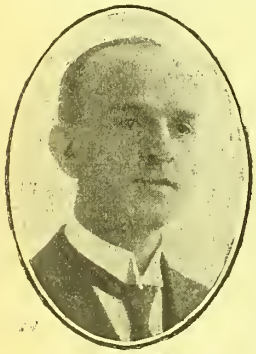
APOLLINARIS AND JOHANNIS, LTD.—The Earl of Bessborough presided at the twentieth annual meeting, held at the Holborn Restaurant, London, on July 19, when a report was read from two firms of auditors to the effect that owing to the war and the dislocation of business and means of communication caused thereby, the directors are not in a position to draw up a balance-sheet which would exhibit a true and correct view of the state of the company's affairs at March 31, 1917. The Chairman, in moving the adoption of the report, said the little he had to tell the meeting would be a repetition of his remarks at the last annual meeting. The German supervisors were still in charge of the Apollinaris springs, but so far as the directors knew the springs and the various properties connected therewith are still intact. The Chairman emphasised the fact that the company is a British enterprise in which more than 3,000,000*l*. of British money has been invested. The Hungarian Government still continues to show the company great consideration, and the British members of the staff are permitted to remain at their posts at the Apenta spring. The company still supplies—as, indeed, it has done ever since it was formed—principally French medicinal mineral waters to customers, and thereby the valuable home connections are fully maintained. The report was adopted.

The Future of the Fine-chemical Industry.

By Ernest W. Mann, B.Sc.(Lond.), F.I.C., Ph.C.

Abstract of a paper read at the annual meeting of the Society of Chemical Industry at Birmingham, July 20.

AFTER referring to the breakdown of the fine-chemical supply in 1914 and to the efforts that have since been made to meet the situation in a practical way, Mr. Mann proceeded to consider the future of the fine-chemical industry under the headings research, manufacture, and markets. Regarding technical research, he defined it as a research carried on under manufacturing conditions with a view cither to produce a workable process for the profitable manufacture of some new compound, to improve an existing works-process, or to find a means for the utilisation of some by-product. The first essential for carrying out this class of research is the trained technical worker. Under the past conditions of chemical training this individual has been a *rara avis*; under present conditions he is hardly likely to be forthcoming, since the supply of raw material in the person of the graduated student is practically *nil*. In regard to our future needs all are agreed that something in the nature of a post-graduate course is required to enable the student to bridge the very considerable step between the University laboratory and the works, but all are not so well in agreement as to what form the training should take. The State Committee on Research advocates the extension of the technological departments already in existence in connection with some of our Universities. Sir Thomas Barclay has proposed the establishment of State research laboratories under joint manufacturing and academic control, working on industrial problems and throwing the results of their work open under licence or royalty. Mr. Mann considered there are many advantages in the latter scheme. Existing buildings and facilities for technological work, already at work in connection with some of our universities and technical schools, could be utilised and brought into co-ordination with the State scheme; for example, the present departments dealing with tinctorial chemistry at Leeds and Huddersfield, situated as they are in the midst of the industry, would form admirable centres for the technological training of research workers for the aniline-dye industry. Another important advantage of such a scheme is the bearing it would have on the economical utilisation of research talent, a very important aspect of the future of technical research, the co-ordination of effort and prevention of waste. It is no doubt common knowledge that since 1914 the problems connected with the manufacture of numerous synthetic chemicals have been under investigation in many laboratories, and probably in the end each has arrived at practically the same result. Quite recently we hear that five firms have done the research work necessary for the production of a certain dye with antiseptic properties. Is this multiplication economic?



MR. E. W. MANN.

Turning next to manufacture, Mr. Mann said that at the present time, with German competition eliminated, American competition severely handicapped, and competition of the Far East only just perceptible, it is a comparatively easy matter for certain manufactures to be carried on in a small way, and yet profitably. But what chance have they on such lines in the future? Take, for example, salicylic acid, now possibly manufactured by a dozen or more firms in this country with an entire output barely sufficient to supply our home needs; compare this with the output of a single German house before the war, greater than all put together. Is there room for so much individual effort; and should not some steps be taken to concentrate production, and thus to reduce manufacturing costs to such a point as will enable this country eventually to compete with the old-established and large-scale German plants? Mr. Mann admitted that the question is an extremely difficult one, and is bound up with the inherent individualistic tendencies of the British manufacturer. There is, however, some encouragement to be derived from the conspicuous success of this policy as applied to the heavy-chemical industry in this country—a policy which is becoming more and more marked, and which without doubt has had much to do with our predominant position in this branch of chemical-manufacture. He asked if it is possible to organise the industry in some such way, or should it be left to settle itself according to the doctrine of the survival of the fittest. He suggested that the best possible method by which efficiency can be tested and stimulated is by the interchange of manufacturing costs. The idea might be carried out either by a State Department or by a trade Association the integrity of whose officials must be beyond doubt. Each manufacturer would state his own manufacturing costs with a clear expression of precisely what was included in the cost; these returns would be tabulated by the official referred to, and communicated under number to the whole of the manufacturers concerned. The knowledge so gained would necessarily be an incentive to efficiency, since no one would rest content until his costs were reduced at least as low as those of any of his competitors. The supply of technical labour is deficient, but under after-war conditions the explosives-works may be able to liberate men who have had training in chemical processes, and who will form a nucleus for the formation of a craft of skilled workers. Turning then to the question of markets, Mr. Mann said the first point that naturally occurs is the relation of the home market to foreign competition, and how far the infant industry is to be protected under post-war conditions. There would, he thought, be general agreement that a tariff is essential, for a time at any rate, to prevent the trade being extinguished by the dumping which otherwise would be inevitable. The incidence of the tariff would have to be carefully considered in its relation to the supply of raw materials, always bearing in mind that the manufactured product of one industry may be the raw material of another.

DISCUSSION.

Mr. Howard said the great difficulty of chemical-makers is the use of alcohol and the restrictions set upon it.

Mr. Sproxton feared that the *non possumus* attitude of the would-be manufacturer is due to the want of knowledge as to what could be done in the direction of securing alcohol for industrial purposes. They must be prepared to give and take and meet each other on common ground. The Board of Customs and Excise is always open to receive suggestions which would not interfere with the protection of the revenue. In the matter of continuation schools, where practicable, they are desirable, but evening work after a hard day's labour is not a congenial task. When Government aid is asked it is always laid down that the public should be allowed to attend, even if the classes are held in, or in connection with, a local works.

Mr. Kilburn Scott would widen the sphere suggested by Mr. Mann, and he referred to what obtained in the United States, where there are industrial fellowships. He favoured inquiries being made in all industries for a list of the troubles which have arisen; these would be collated, and then Professors of the Universities would send the right man to investigate the causes of the trouble and suggest remedies. If the money is forthcoming there would be no difficulty in the supply of suitable men.

Mr. Heaven said that this industry is in the hands of a few firms only, and he hoped that when the Minister of Munitions has done with his extensions which had been set up everywhere as appendages to existing works these would be utilised in the direction outlined by Mr. Mann. He hoped individuality would be guided into useful channels.

Dr. Carpenter said that several matters which had been referred to by the speakers are now under consideration.

In his reply, Mr. Mann said that those interested in the matter should get and study the booklet issued by the Imperial Research Committee. He was able to say that his company has not found any insuperable difficulty in procuring alcohol for the preparation of chloroform and hexamine, but of necessity a suitable denaturing agent had to be agreed upon, and the whole manufacture is carried on under official supervision. No payment is required for this supervision.

DIRECTORS AND OFFICERS of companies guilty of an offence against the Defence of the Realm Regulations are also to be held guilty, unless they prove that the offence took place without their knowledge or consent.

THE VALUE OF WAR lies in this: it restores simplicity to life, and brings down the top-hamper which peace has superimposed. At the moment you are striving to reform a social life which is passing away. This generation has been dominated by the machine; and all effort has been expended upon machines for making more machines instead of towards the work itself. Science has been crying aloud: "Come and see what I will do for your souls"—and we have seen. I think that in future his giantship will go somewhat crestfallen, and that machines and those who tend them will have less power.—*Captain A. Macphail, M.D.*

Births.

DAVIES.—At The Pharmacy, Clydach-on-Tawe, on July 19, the wife of Henry R. Davies, chemist, of a son.

DICKSON.—At Uphall, Linlithgowshire, on July 23, the wife of J. J. Dickson, pharmacist, of a daughter.

HEWERDINE.—At 17 St. Edward Street, Leek, Staffs, on July 20, the wife of Walter H. Hewerdine, chemist, of a son.

Marriages.

COOKE—BLAIR.—At St. Luke's, Cork, on July 5, Captain J. Harbourne Cooke, R.G.A., to Bessie McIlwraith Blair, B.Sc., elder daughter of Mr. and Mrs. Blair, 3 Montpellier, Cork.

FORSTER—CAMPBELL.—At St. Peter's Church, Monkwearmouth, on July 24, by the Rev. J. T. Brown, Vicar, William Forster, F.C.S., Ph.C., 30 Church Street, Seaham Harbour, to Isabella Campbell, Ph.C., 37 Stansfield Street, Sunderland.

GIBSON—MERSON.—At the Imperial Hotel, Aberdeen, on July 18, by the Rev. J. L. Symington, B.D., Rathven Parish Church, G. P. Gibson, chemist and druggist, Buckie, to Janet, second daughter of Mr. and Mrs. James Merson, 6 Portessie.

Deaths.

ARNOLD.—At 4 Ferrestone Road, Hornsey, London, N., on July 17, Mr. John Arnold, senior partner of Arnold & Sons, surgical-instrument makers, West Smithfield, aged eighty.

CHARNLEY.—At 44 Liverpool Road, Southport, on July 13, Mr. Charles Charnley, chemist and druggist, aged seventy-eight.

DIER.—At Woodville, Gladstone Road, Crowborough, Sussex, on July 20, Mr. George Hugh Fielden Dier, chemist and druggist, aged thirty-seven. Mr. Dier had for some fourteen years carried on business in the Croft Road, Crowborough, and his death came as a surprise to many of his friends, as he was attending to his business a fortnight ago. He served his apprenticeship to Mr. Martin, of Lewes, and qualified from the Westminster School of Pharmacy in 1902. He leaves a widow and two boys. Mr. Deir was a member of the South Saxon Lodge of Freemasons.

KNIGHT.—On March 16, Mr. Lindsey Knight, chemist and druggist, of Bay Street, Brighton, Victoria. Mr. Knight was the son of Mr. William Knight, Ph.C., of Tewkesbury, England, at which place he was born. He served his apprenticeship to Mr. Hugh Gilbert Symmons, of Milford Haven, Pembrokeshire. He then had varied English and Continental experience, and before going to Australia was for five years with Savory & Moore, Lancaster Gate, Hyde Park, London, and two years with the same firm at King's Road, Brighton, England. He emigrated to Victoria in 1882, and was in business in Ballarat from 1885 till 1897, when he purchased the business of Mr. Chas. Towl, Bay Street, Brighton. He remained there until his death.

LAING.—At Strathallan House, Bridge of Allan, suddenly, on July 21, Mr. George Laing, dispensing chemist, aged fifty-five. Mr. Laing passed the Minor in 1883, and went to Bridge of Allan thirty years ago as an assistant to the late Mr. Farie. On the death of Mr. Farie he continued to carry on the business as Farie & Co.

MANN.—At Pier Avenue, Clacton, on July 17, Mr. William Mann, chemist and druggist, aged fifty-nine. Mr. Mann went to Clacton as assistant to Mr. W. S. Baker, of whose business he eventually became proprietor. He was a member of the Clacton School Board, and was formerly Treasurer of the Clacton Free Church Council.

VOSS.—At Rayleigh, Essex, on June 11, Mr. Walter A. Voss, F.C.S., aged fifty-two. Mr. Voss was the founder of Walter Voss & Co., Millwall, which firm specialised in agri-horticultural chemicals, but for some months past he had taken little more than a nominal interest in the business on account of ill-health.

Died on Service.

BAILEY.—Private John Bailey, King's Liverpool Regiment, who has died of wounds received in action, was previous to his enlistment an assistant with Granville Wood & Co., chemists and druggists, High Street and Ascroft Street, Oldham.

BENN.—Private E. J. Benn, Royal Marine Light Infantry, formerly with Mr. E. J. Dobson, chemist and druggist, Victoria Road, Deal, was killed in the explosion on the *Vanguard*.

COOK.—Second-Lieutenant Humphrey Noel Felix Cook, Queen's R. W. Surrey Regiment, was killed by a shell in his dug-out while doing assistant-adjutant's duty at battalion headquarters in France. Previous to the war Second-Lieutenant Cook had distinguished himself in pharmacy, he in 1911 being a winner of the Fairchild Scholarship, at which time he was with Mr. F. E. Whitfield, chemist and druggist, 65 Regent Road, Great Yarmouth. On leaving Yarmouth he entered the South of England College of Pharmacy, where he was awarded a silver medal for the highest aggregate marks and bronze medals for pharmacy and chemistry. After qualifying as a chemist and druggist in 1912, he matriculated at the London University, then entered the University College as a medical student. In 1914 he passed his First Medical Degree examination, gaining the College silver medal for inorganic chmistry, and was awarded a Bucknill Exhibition, open to all medical students. His commanding officer writes to his mother: "Your son was one of the best soldiers and officers in the battalion, and it was only a matter of days before he got his company. . . . Previous to this terrible calamity, your son had led his company through the very successful attack with great coolness and courage." Second-Lieutenant Cook was twenty-six years of age, and had been in France since May 1916.

SECOND-LIEUTENANT COOK.

EDWARDS.—Private Thomas Richard Edwards, Honourable Artillery Company, who served his apprenticeship to pharmacy with his uncle, Mr. Thos. Jones, chemist and druggist, Tregaron (Cardiganshire), has died in hospital at Sheffield from illness contracted in France. When he enlisted about two years ago he was manager of a pharmacy in the City of London.

MILNE.—Pioneer Andrew Milne, Royal Engineers, who has been killed in action, was a chemist and druggist, passing the Minor examination in 1912, and had been employed in Dundee and Edinburgh.

POWELL.—Private George Winton Powell, West Somerset Yeomanry, attached Somerset Light Infantry, who was reported wounded and missing, is now officially stated to have been killed in action in France on April 28, aged nineteen. He was the only son of Mr. J. T. Powell, 55 Hatton Garden, London, E.C.

Business Changes.

E. GOULD & SON, homœopathic chemists, have removed from 59 to 35 Moorgate Street, London, E.C.

H. SALLE & CO., 4 Rue Elzevir, Paris (IIIe), announce that the new style of the firm is H. Salle, Michel, Laurent, & Guigue.

GEO. HIGGINS & CO., druggists' sundriesmen, have removed to temporary premises, 6 Russell Road, Wood Green, London, N. 22.

A. C. HANCOCK & CO., LTD., Tower Bridge Road, S.E., have purchased the branch business of W. C. Stuckey & Co., Hamilton Road, Golders Green, N.W.

TYLER'S DRUG-STORES (Mr. J. E. Goodall, proprietor) has removed from 9 to 14 High Street, St. Marylebone, London, W., owing to the expiration of the lease.

THE BUSINESS OF GRISTOCK & CO., 1 Blandford Street, London, W., has been transferred to Mr. R. Thomas, 97 High Street, Marylebone, W., under the management of Mr. W. Aydon Williams.

THE NATIONAL DRUG CO., LTD., Judd Street, London, W.C., have disposed of their stock and fixtures and closed the premises. A branch recently opened in Prince of Wales's Road, Kentish Town, N.W., has also been closed.

Personalities.

MR. ALAN A. CAMPBELL SWINTON, F.R.S., has been elected Chairman of the Council of the Royal Society of Arts.

MR. L. A. JACKSON, of the London Rubber Co., has been operated on for appendicitis at Birmingham. He is progressing favourably.

WOR. BROTHER THOS. POSTLETHWAITE, Ph.C., Portsmouth, has been appointed P.A.G.D.C. in the Hants and Isle of Wight Provincial Grand Lodge.

SIR MALCOLM MORRIS has been elected President of the Institute of Hygiene in succession to Sir William Bennett, who held the position for ten years.

MR. GEO. J. SARGENT, who entered the Civil Service in 1877, and has been connected ever since with the Companies' Registration Office, will shortly retire from his position of Assistant-Registrar of Joint-stock Companies.

MR. THOMAS TYRER, F.I.C., Treasurer of the Society of Chemical Industry and managing director of Thomas Tyrer & Co., Ltd., chemical-manufacturers, Stratford, London, E., has undergone a second operation for cataract this week, which has been quite successful.

MR. H. J. DALGLEISH, who for some years past has been one of the school managers of the Walworth group of L.C.C. schools, has been appointed Chairman of the local Attendance Sub-Committee, which deals with cases arising out of the irregular attendance of the pupils.

THE LATE MR. BERTRAM FRANCIS BROWNING, whose death was announced in last week's issue (p. 40), was not only partner in Jas. Houghton & Sons, but also in the old firm of Jas. & Hy. Browning & Co., 27 Bartholomew Close, London, E.C., which was established in 1735, and is well known to chemists. The funeral service took place on July 21 at St. Mark's, Purley, where Mr. Browning was a sidesman and a Church worker. There was a large congregation there, and also at Bandon Hill Cemetery afterwards. Deepest sympathy is felt for the widow, whose second son, Captain S. F. Browning, R.F.C., was killed at the Front.

MR. ALBERT H. CULVERHOUSE, chemist and druggist, who has been elected President of the Sheffield Pharmaceutical and Chemical Society and Chairman of the Pharmaceutical Committee, is thirty-seven years of age, and a native of Colchester. He was educated at the Royal Grammar School, and apprenticed to Mr. Arthur Weddell, Ph.C., Colchester. Next he went to Sheffield as junior assistant to the late G. T. W. Newsholme, leaving to study at the Metropolitan College of Pharmacy, from which College he passed the Minor in 1902. He then spent two years with the late Mr. Bowen (Jolley & Co.), Curzon Street, Mayfair, and after that returned to Sheffield, and he is now manager of the retail department of G. T. W. Newsholme, Ltd., having also an interest in the business. He has always taken a great interest in the work of the local Society, was elected to the Council in 1911, and has been Vice-President two years. His work as Secretary of the Pharmaceutical Organisation Committee in conjunction with Mr. Antcliffe in placing the pharmaceutical service on a sound basis at the commencement of the National Health Insurance Act was highly appreciated. He has been Vice-Chairman of the Pharmaceutical Committee since its formation.

MR. A. H. CULVERHOUSE.

"SALTPETRE: ITS ORIGIN AND EXTRACTION IN INDIA" is the title of a bulletin by C. M. Hutchinson, B.A., the Imperial Agricultural Bacteriologist, issued by the Agricultural Research Institute, Pusa.

"MAN BY NATURE IS A SCRATCHING ANIMAL," says Dr. F. H. Barendt, F.R.C.S., in the "Medical Press." Soap was his subject. He also says that "bath pruritus is really due to the action of the alkali on an overwashed skin."

COUNTRY LADY to Post Office Clerk: "I've been expecting a packet of medicine by post for a week and haven't received it yet." Post Office Clerk: "Yes, madam. Kindly fill in this form and state the nature of your complaint." Lady: "Well, if you must know, it's indigestion!"

Trade Notes.

MR. THOMAS SWALES, Leeds, offers three cheap lines in soothers, tooth-brushes, and valves in his advertisement.

NEW SEASON'S EXTRACTS are being offered by Baiss Bros. & Co., Ltd., 174-176 Grange Road, Bermondsey, London, S.E. 1.

NATRAL SALTS.—This is a new line put up by the Red Band Chemical Co., 186 Dalry Road, Edinburgh. Particulars of the preparation, which is for rheumatism and sciatica, are given in an advertisement in this issue.

FIRST-AID CASES.—May, Roberts & Co., Ltd., 7 to 13 Clerkenwell Road, London, E.C. 1, in their advertisement specify several first-aid cases or Sandringham outfits, which chemists can offer as the best for use in case of injury by enemy air raids. The details given are sufficient to enable purchases to be made at once.

"EMPIRE" EAU-DE-COLOGNE, one of the products of the Empire Perfumery Co., Oldbury, is packed in the ordinary cologne-bottles, but has a label which is distinctly British in style. This brand of eau-de-cologne has been made in England for thirty years. An examination of a sample which we received this week shows that it has a character which distinguishes it from other brands.

PRICE-LIST.—The annual catalogue of F. Newbery & Sons, Ltd., 27-28 Charterhouse Square, London, E.C. 1, has been issued this week. At the commencement are given lists of additions and alterations in prices which took place whilst the list was passing through the press. Then follows the list proper, divided into (1) druggists' sundries, (2) packed goods and drugs, (3) photographic requisites, and (4) proprietary articles. At the end is a very useful exposition of the Medicine Stamp Act, and a list of proprietary articles containing scheduled poisons—the most complete of its kind. Some notes are then given regarding the sale of medicated wines, those being indicated which can only be sold under a wine-licence. The list is a substantial one, although, as a matter of fact, owing to war conditions, there are fewer pages than usual. Chemists who have not received a copy should write for one.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

84/61. Globrophos.
86/63. "Inalak."
86/65. "Casinol."
79/12. Widdowson's ear-plug.

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C. 4:

"Albulactin," 86/12
"Aletris Cordial," 82/39
American Chicle Co.'s products, 75/5
Artificial flowers, 73/21
"Balmosa," 86/66
Barff's boro-glyceride, 79/84
Bates' salve, 74/18
Blair's gout-pills, 74/18
Bottle-capping skins (for Egypt), 22/51
"Bridal Bouquet" bloom, 77/6
"Britogen," 79/11
"Bromo" toilet-paper, 72/20
Castor oil, 55/71
"Cephos," 37/64
Chamberlain's cough-remedy, 47/38
Drinking-straws, 67/14
Edgar's croup lotion, 74/18
"Eupnine Vernade," 80/1
"Factative," 84/2
"Flora Nigra" marking-ink, 76/61
Formitrol, 72/35
Frazer's sulphur-tablets, 74/18
Gardner's phosphamol, 72/36
Glucose for manufacturing-purposes, 78/44
"Jaraso" personal weighing-machine, 32/16
Johnson's baby-powders, 82/10
Labelling-paste, 80/40
"Lablache" face-powder, 44/13
Menthoclone, 74/18
"Methysal Balm," 87/46
Milk-condensing machinery, 73/72
"Mineral Spring" health-salts, 81/36
"Mother Seigel's" syrup, 82/39
"Onalite," 32/29
Osborne's cure, 8/31
"Osmique" dressings and drainage-tubes, 17/14
Oxydol, 78/29
Packer's tar soap, 74/18
"Parasitox," 79/13
Paternoster pills, 74/18
"Permutit," 76/63
Pond's vanishing-cream, 74/9, 76/10, and 86/34
"Pyxoll," 77/4
Reducine, 74/18
St. Jacob's oil, 85/70
Seamless elastic hosiery, 86/25
Smedley's chillie paste, 74/18
Spongio-piline, 69/11
Strontium salts, 78/28
Styptic pencils, 84/21
Sulphonated castor oil, 82/8
"Tabellæ Sotol," 82/6
"Therapion," 86/12
"Thervac" vacuum flasks, 75/17
Thialon, 74/18
Towle's pennyroyal pills, 74/18
"Vevax" liquid dog-soap, 77/62
Watson's castor-oil pills, 74/18

Observations and Reflections.

By Xrayser II.

The Progressive Pharmacy Club

will have the good wishes, and it is to be hoped the active support, of all who have the welfare of the calling of pharmacy at heart. The idea of such a club is a capital one, and the title chosen is felicitous, suggesting as it does the double purpose, the social with the propagandist, which such an association should serve. The chemist and druggist of the past was perhaps, to use Dr. Johnson's phrase, the least "clubbable" of men; we need not accept such a libellous figure as that of Mr. Critchley in "The Old Wives' Tale" as typical, but it cannot be denied that we have had the reputation of being a peculiarly isolated and somewhat unamiable set of people, and possibly we have to some extent deserved it. But other times, other manners; recent events have done much to draw us together, and our new leisure, due to early closing, should stimulate our social instincts as well as giving us an opportunity to indulge them. This drawing of men together is the true function of a club, as it is thought to be the reason for the name; "to club" is to combine into one mass, as in "clubbing" the hair. Now, to combine for some specific purpose is a bond of union, but to combine in friendship is a stronger; "friendship, thou solder of society!" says Blair, and I dare to say that a really social club will bind pharmacists together better than a meeting for purely business-purposes. There is no fear that these will be lost sight of. "Progress" is the watchword of the club, and there will be no lack of driving-power; but the wheels of the pharmaceutical engine need grease as well as propulsion, and the convivial element will best supply it.

Drug-stores and Cash Chemists

together would hardly yield you matter for another series of articles on titles. All that need be said of their origin might be packed in a nutshell. Drug-stores, it seems to me, are the natural result of the Pharmacy Acts. History repeats itself. Just as the apothecaries, when they emerged from the chrysalis stage into the open sunlight of the medical profession, left their old trade behind them for the chemist and druggist, so we, when we put on the glory of a chartered body protected by Act of Parliament, left, as Jay Mack says, ninety per cent. of ours to anybody who cared to pick it up. As individuals we are still mostly traders, but considered abstractly we are a professional class. The difference between us and the apothecaries is that they made sure of their new profession before abandoning their old trade, and we did not. We accepted "the promise and potency" of a new status, represented by a title and a Poisons Schedule which for years caused us more trouble than it was worth. Even now, though the National Insurance Act has advanced us a little, it is a moot point with some of us whether, like the dog in the fable, we have not dropped the substance in grasping at the shadow. As for cash chemists, I am not aware that Sir Jesse Boot registered that title; we may any of us have it if we want it, and it is idle to envy those we can so easily imitate. This, of course, is not the whole question, but it ought to satisfy so severely practical a man as Jay Mack. I hope nobody will suppose that I am for imitating the cash man: I am not. I think our true line of development is now in the other direction, but I am not in favour of the policy of throwing away a mackerel to catch another sprat.

My Question, "What is Profiteering?"

has brought me a most interesting note and enclosure from Mr. Harold Deane, Sudbury, for which I thank him, but his communication does not exactly answer my question, the intention of which, moreover, was in part, at least, rhetorical. "Profiteering," it seems, was first used in 1911 or 1912 by a writer in "The New Age," but was used in a different sense from that now attaching to it. Its inventor did not mean by it the making of an unfair profit, but the making of any private profit whatever; in fact, as he now says, profiteering and capitalism are, in his mind, one and the same thing, and it is capitalism, not profiteering, as we now understand the term, that he attacks. This being so, it is a little illogical to thank the Press, as he does, for taking up the word, since it has done so in such a way as to render it useless for its intended purpose. Capitalism and the making of an unfair profit are not the same thing, and to regard them as being so is to fall into the error of confounding abuse with use. The writer in "The New Age," indeed, recognises a distinction between fair and unfair profit; he even lays down a criterion by which private profit may be judged, and welcomes the agitation against profiteering in the current sense as a "lesser reform." His criterion is the amount the nation would pay for the service if it were national instead of private. This is no criterion at all. The nation, having less to fear from competition, can get services performed for much less than a private firm, and occasionally, as we have seen recently, it pays, out of favouritism or through sheer incompetence, a good deal more for them than it need. My question, then, remains, as I say, unanswered; there is no hard-and-fast rule; every alleged case of profiteering must be judged in relation to its circumstances.

Sesquicarbonate of Soda

is now placed on the prohibited list for export to neutral countries. The bicarbonate is also prohibited for neutral countries, and the carbonate for all countries except British Possessions. I suppose there will be some reason for the distinctions made, but what it is I do not know. The sesquicarbonate is employed in wool-washing, and is familiar as the basis of bath-salt, the advantage of the salt being that it is neither efflorescent nor deliquescent. It exists in nature, and could be obtained in almost unlimited quantities by the spontaneous evaporation of the water of three lakes in Oregon and California, the amount obtainable from these sources being estimated as sufficient to supply the whole world with soda for generations. Owing to the cost of transportation only a relatively small quantity of carbonate has hitherto been produced from this source.

Times have Changed

since the early days of the Insurance Act, when the cost of prescriptions averaged 9*d.* and 10*d.* each. Now they are down to 5¼*d.* and 5½*d.*, and who knows whether even these figures represent the irreducible minimum? I am not sure that the study of "the art of economical prescribing" is responsible for the entire reduction, for the new Tariff rates and methods of computation of charges may have had a good deal to do with the change. It is clear, however, that the profit on a 5¼*d.* prescription cannot be anything like as large as on one at 9½*d.*, and chemists will certainly now receive much less for their work—as, indeed, had been proved long ago when the change was instituted. Whether also the panel patient is being deliberately dosed with cheap (and nasty) medicine, as one speaker hinted at Preston, is a matter that may some day need investigation; let us hope for the credit of the medical profession that no organised effort is being made to defraud the workmen in any such scandalous fashion.

OPTICAL GLASS.—It is stated in the daily Press that the secret of making optical glass as used in field-glasses, range-finders, and periscopes, a product for which the United States hitherto has been dependent on Germany, has been discovered by the Bureau of Standards. Experts of the Bureau have been at work on the problem for two and a half years.

BABY-COMFORTERS.—At a meeting in London to consider the best means of increasing the supply of midwives, Lady Campbell, referring to the use by poor mothers of babies' comforters, said that one of the greatest doctors, when at her house, was asked to warn her nurse against allowing babies to use comforters. The doctor gave the lecture to the servant, but on leaving the room observed, "Comforters are always used in my own nursery."

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Index Folio 654

"A revolution in the art of Urine Testing."—*Medical Press & Circular.*

ENDOLYTIC TUBES

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Editorial Articles.

Wood Products.

PREVIOUS to the war our supplies of acetone, of which considerable quantities are used in the manufacture of explosives, were largely obtained from foreign countries where waste wood in quantity is available at a low cost for destructive distillation; but the position, as a result of the war, is now radically altered, and every endeavour is being made to produce acetone in this country. The Imperial Institute has been investigating the matter, and in an article on the "Distillation of Wood and other Vegetable Products," in a recent issue of the "Bulletin," mention is made of the fact that wood-distillation at the present time is being carried on at a number of places in the United Kingdom, notably at the Government works in the Forest of Dean, Gloucestershire (see *C. & D.*, September 6, 1914, p. 72). At the same time we are still largely dependent upon imported supplies of wood-distillation products, and we give the total imports of several of the leading products into the United Kingdom during the past three years:

Acetate of Lime.

From	1913 cwt.	1914 cwt.	1915 cwt.
Canada	62,329	26,656	10,257
U.S.A.	27,191	51,283	84,938
Other countries ...	10,062	6,372	6,072
	99,582	84,311	101,267
Value ...	£49,342	£38,919	£81,238

Acetone.

From	1913 cwt.	1914 cwt.	1915 cwt.
Canada	7,830	4,939	7,880
U.S.A.	15,924	33,453	107,674
Germany	8,619	4,570	—
Austria-Hungary ...	13,600	4,202	—
Other countries ...	434	40	—
	46,407	47,204	115,554
Value ...	£162,633	£138,813	£524,877

Acetic Acid.

From	1913 cwt.	1914 cwt.	1915 cwt.
Canada	—	150	—
U.S.A.	18,912	25,056	85,724
Netherlands	31,999	28,633	11,441
Belgium	18,455	17,772	—
Germany	2,634	3,185	—
Other countries ...	3,128	3,121	6,102
	75,128	77,917	103,267
Value ...	£85,790	£93,646	£213,681

The acetic-acid imports do not include those for table use. During 1915 there was also imported 652,348 gals. of wood-alcohol, against 497,243 gals. in 1914 and 618,043 gals. in 1913, the United States being almost the sole supplier. Practically the whole of these imports were retained for home consumption, and it will be seen that Canada was the only country within the Empire that furnished supplies. The question is, however, being taken up in other parts of the Empire, notably in Natal, where wattle-wood is being used as a raw material, and in the State of Mysore and Ceylon, where cheap raw material is available. A series of trial distillations with wattle-bark and olive-wood from the East African Protectorate has been conducted at the Imperial Institute, and the results show that the yield of acetone and acetic acid from both woods is satisfactory.

Venereal Diseases Order.

THE Venereal Disease Act is an Act of which our legislators have no reason to be proud. It is probably the most barefaced piece of class legislation of modern times, but since it is the law of the land, chemists will do their best to carry out the provisions of the Act so far as it affects the drug-trade. We gave the text of the Venereal Disease Act in our issue of June 16 (p. 34), and have since answered a large number of inquiries regarding the interpretation of the different sections. The only part which is in force at the present time is Section 2 (1), Sub-Section (2) of Section 2 (dealing with advertisements) coming into operation on November 1. Section 1, which is designed to prevent the treatment of venereal diseases otherwise than by medical practitioners, can only operate in those areas in which it is applied by order of the Local Government Board. It is also provided that no order can be made in any area until an approved scheme is in operation for the gratuitous treatment of persons in that area suffering from venereal disease. It is now announced in the "London

Gazette" that on November 1 Section 1 of the Venereal Disease Act will be in force in the following counties and county boroughs, these areas having approved schemes in operation for the gratuitous treatment of syphilis, gonorrhœa, and soft chancre:

Counties.

Buckingham.	Leicester.
Cambridge.	London.
Durham.	Middlesex.
Essex.	Norfolk.
Hereford.	Northampton.
Hertford.	Northumberland.
Isle of Ely.	Surrey.
Kent.	

County Boroughs.

Bootle.	Leicester.
Bradford.	Newcastle-upon-Tyne.
Cardiff.	Northampton.
Coventry.	Norwich.
Croydon.	Portsmouth.
Darlington.	Sunderland.
Dewsbury.	Tynemouth.
Dudley.	Wakefield.
East Ham.	Warrington.
Hastings.	West Ham.
Leeds.	

To make the matter clearer we give a map of England and Wales, upon which are indicated the areas mentioned in the Venereal Diseases Order. Section 1 of the Act is as follows:

"In any area in which this section is in operation a person shall not, unless he is a duly qualified medical practitioner, for reward either direct or indirect, treat any person for venereal disease or prescribe any remedy therefor, or give any advice in connection with the treatment thereof, whether the advice is given to the person to be treated or to any other person."

It should be borne in mind that chemists in the prescribed areas who after November 1 treat venereal diseases will render themselves liable to two years' hard labour—a penalty, for an offence not involving a question of morals, which can only be described as savage. It should be noted that the offence under this section is treating any person for syphilis, gonorrhœa, or soft chancre, prescribing any remedy therefor, or giving any advice in connection with the treatment thereof, *for reward either direct or indirect.* Advice can be given so long as it is not rewarded in any way, but our readers should particularly notice that the scope of the section is very wide. For example, a person suffering from the diseases referred to, apart from drug treatment, may require a suspensory bandage, a urethral syringe, or gonorrhœa-bags, but chemists in the prohibited areas may not after November 1 "give any advice in connection with the treatment," so that they are precluded from recommending these articles because if the advice were taken and any purchase made, that would be indirect reward, rendering the chemist liable to two years' hard labour. This point has been put to us, and it is useful as illustrating what we cannot help thinking is the unintentionally wide range of the Act. We should think that further areas will be proclaimed before long, but until the whole of the country is included the injustice of the partial application of the Act is apparent. Chemists will no doubt be consulted by customers as to the best place for obtaining treatment whether from medical practitioners or at the public institutions provided under the Public Health (Venereal Diseases) Regulations, 1916. As many medical men decline to treat venereal diseases at all, and others who undertake the treatment do so in a perfunctory manner, we are inclined to think it would be preferable to advise the sufferer to go for free treatment to a public institution. He would in the latter case be able to complain to higher authorities if the treatment appeared to be negligently carried out. We should like, however, to hear opinions as to the satisfactory character or otherwise of the State-provided gratuitous treatment before recommending chemists to interest themselves in these public institutions.

The U.S.P. and N.F.

MR. MARTIN I. WILBERT has edited Bulletin 107 of the U.S. Hygienic Laboratory, entitled "Changes in the Pharmacopœia and the National Formulary," which is a digest of the changes and requirements of the articles included in the United States Pharmacopœia (IX.) and the National Formulary (IV.). The greater part of the Bulletin (240 pages out of 396 pages) is taken up with an alphabetical list of the official Latin titles, with notes of the changes and requirements. As both works are included in this index, a very useful compilation results of the official drugs and preparations in use in the United States. Lists of official synonyms follow, whilst the introduction consists of a short history of the Pharmacopœia and the Formulary, with notes regarding the general principles that have been followed in revising these works. It will be remembered that the United States Public Health Department assists the Board of Trustees of the Pharmacopœial Convention, and as pharmacists are employed on pharmaceutical work, the result is much better than can be expected by the British system of employing medical men.

Inspectors of Explosives' Report.

THE forty-first annual Report of the Inspectors of Explosives, covering the year 1916, was issued recently. It is in the abbreviated form which has been adopted since the commencement of the war. The Chief Inspector (Major A. Cooper-Key) reports the appointment of three additional Inspectors—Major Sir James Douglas, Bart., Mr. T. C. Taylor, and Mr. M. E. White—with the result that many more visits have been paid to factories where explosives are manufactured. It is mentioned that there have been forty-eight factories added to the list of licensed premises since the outbreak of war. Reference is made to the difficulty experienced in impressing on makers of picric acid the necessity of the strict observance of the requirements in regard to cleanliness and freedom from grit in danger buildings. The deaths from accidents in explosives-factories numbered 195, 144 being accounted for in two accidents. The accounts of accidents include two serious explosions in cylinders of absorbed acetylene due to defects in the welding of the cylinders. A Committee is endeavouring to formulate rules for preventing such accidents in future.

Killing Flies.

PROFESSOR E. B. PHELPS and Mr. A. F. Stevenson have concluded a series of experiments with muscicides and other fly-destroying agencies, particulars of which have been published by the United States Hygienic Laboratory as Bulletin No. 108. The interesting fact is mentioned that a 1-per-cent. solution of sodium salicylate has been found to be as efficient as formaldehyde solution for killing flies and distinctly superior in many ways. The hint will be useful just now, when chemists are being asked about chemical fly-killers. There is also, it is pointed out, a particular strength of formalin solution at which it is most deadly as a muscicide. Various strengths were tried, but it was found that the most efficient solution is one containing 0.5 to 1 per cent. of formaldehyde, equal to 1.25 to 2.5 per cent. of formalin. A good many other liquids were tried, and one which is popular in the United States—a solution containing potassium bichromate and quassia syrup—was found to be of little value. In regard to sticky fly-papers, about which the investigators are not very enthusiastic, it was found that a composition consisting of one part by weight of castor oil and two parts of white rosin is the most satisfactory. Experiments have not shown any advantage in the use of fish oils, which are reputed to attract flies. A suggestion is made that the sticky composition referred to above could be thinned with ether and sold in bottles. When required for use a little of the liquid is poured on a plate, when the ether evaporates and leaves a sticky substance ready for use. It is suggested that this way of selling the sticky preparation would lead to the increased use of this form of fly-catcher.

Association Affairs.

Devon.—The annual meeting of the Devon Pharmaceutical Association was held on July 18 at the Arcade Lecture Hall, Exeter, Mr. P. F. Rowsell, J.P., in the chair. There was a representative attendance from all the divisions in the county. The annual report and balance-sheet were presented by the Hon. Secretary and Treasurer, Mr. H. Wippell Gadd, and were received and adopted. Various matters concerning Insurance dispensing and the general interests of pharmacists in the county were discussed. Mr P. F. Rowsell was re-elected *Chairman*, Mr. F. March (Torquay) *Vice-Chairman*, and Mr. H. Wippell Gadd *Hon. Secretary and Treasurer.*

Halifax.—The Halifax and District Chemists' Association met at the Old Cock Hotel, Halifax, on July 18, Mr. A. Taylor (President) in the chair. Circulars P.S. 38 and 39 were discussed. It was decided to recommend members to close their pharmacies for four days during the local holidays in August, a rota being arranged for urgent medicines and Insurance dispensing.

Huddersfield.—A meeting of the Huddersfield Chemists' Association was held on July 24 at the Cherry Tree Hotel. Mr. Vincent Shaw (President), in the chair, warmly criticised the July Insurance Tariff, especially in regard to appliances. In view of the recent considerable advance in dressings and things of that kind much indignation was displayed on account of there being no revision in the price of bandages, gauzes, and boric lint, which are quoted as examples. Unmedicated gauze, one member said, is priced in the July Tariff at 9.75*d.* per six yards, but he received an invoice last week for a parcel of the gauze at 11.1*d.* per packet. The President gave a report of an interesting ramble which several members had on June 20 in the districts of Almondbury and Thurstonland.

London (E.).—The West Ham, East Ham, and Metropolitan Essex District Association of Pharmacists met at Earlham Hall, Forest Gate, on July 19, Mr. F. Walter Gwinn (President) in the chair. A letter was read from the Secretary of the Pharmaceutical Society commenting on an advertisement issued by the West Ham Guardians for an assistant to attend to the distribution of groceries and do dispensing. The opinion was unanimously expressed that the Pharmaceutical Council itself is the body which should deal with such matters through its legal representative, and that it should at once communicate with the Local Government Board on the subject. The London and Home Counties Organisation Committee came in for criticism, after which warm approval was accorded to the Progressive Pharmacists' Club. Mr. Kirkpatrick, who introduced the subject, is fully convinced that the club is established on a solid rock, and evidence of success is assured by the large membership already secured. A discussion on the position of pharmacists in the Army was introduced by Mr. Lloyd, who moved the following resolution, which was carried unanimously:

"That this Association urges the Council to push forward the matter of obtaining commissions for pharmacists in the Army, as it is the most important question before the leaders of pharmacy. Further, that the Association hopes and expects that in future the Council make known to pharmacists the result of their negotiations with the War Office on this question, as it considers it has a right to know what transpires between the two bodies, and that the Council should ask the Prime Minister to receive a deputation in the event of their negotiations with the War Office being unsuccessful."

It was agreed to have a river-trip on the date of the next meeting of the Association. The President reported on his appearance before the Local Associations Special Organisation Committee, and was thanked for the manner in which he had voiced the opinions of the Association.

P. and D.S.P Society.—The annual meeting of the Incorporated Society of Pharmacy and Drug-store Proprietors was held at Manchester on July 18, Mr. W. Huntrods (President) in the chair. The Secretary in his report referred to the number of subscriptions in arrear and the necessity for an increased subscription. The officers were re-elected *en bloc*, except that Mr. Brelsford took the place of Mr. Haliday on the Council. The use of a minimum retail price-list was approved as a guide to prices. The President in his address referred to the Military Service Act, and stated that so far as can be estimated the members had been more successful in their appeals to Tribunals than registered men. Mr. O'Grady, M.P., had helped drug-store proprietors in this matter. The President claimed that it was through the influence of his Society that diachylon was placed in Part I. of the Poison Schedule instead of Part II., as he alleged had been intended. He added, "We are gradually ingratiating ourselves into the confidence of the Privy Council and Parliament." The lack of profit on some proprietary articles was also referred to.

"Script" Sports Club.—On July 19 two matches in the team bowling tournament were played. The Eastern chemists beat the South-Eastern men, at Poplar, by 44 to 40, after a closely contested game; and the Western division gained an easy victory over the South-Western team, at Clapham Common, by 64 to 33—this being the South-Westerners' first experience of a team tournament game.

Sheffield.—The Council of the Sheffield Pharmaceutical and Chemical Society met on July 18, when Mr. A. H. Culverhouse was elected *President*, Messrs. S. Furnival and C. H. Hewitt *Vice-Presidents*, Mr. H. Antcliffe *Treasurer*, Mr. E. Preston *Hon. Secretary*, Messrs. E. Wells Smith and E. Hands *Auditors*, and Mr. W. Gregory *Librarian*. It was decided to send the Treasurer as a delegate to tender evidence on organisation before the Society in London.

Ucal.—A meeting of the Ucal Lodge of Pharmacy was held on June 18 at the Holborn Restaurant, London, the President (Mr. Milner) in the chair. A scheme for the federation of groups of members of Ucal Clubs, Lodges, and Associations was discussed at great length. A lively interest was taken in the discussion on account of the approaching Conference in October, which will probably be held in London, to consider the elaborate scheme for federation put forward by Mr. Hearle, who has been appointed Secretary of the Ucal Federation Conference, Mr. Corbett (Birmingham) being the President.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Bournemouth.—At the last meeting of the Insurance Committee 20*l.* was advanced to the Pharmaceutical Committee in respect of administration expenses for 1917. The Commissioners notified grants of 35*l.* for 1916 and 1917 prescription-pricing, and the Clerk was instructed to inform them that the extra cost for 1916 was 63*l.*, and to apply for an additional grant for that year. A further grant on account of temporary residents for 1915 having been received, chemists' accounts under that heading will be paid in full. The total value of prescriptions on the basis of Article 5 Tariff (which the Committee adopt) for 1916 is 2,059*l.* 3*s.* The balance of chemists' accounts is to be paid as soon as the figures are received from the Pricing Bureau.

Cambridge.—The Insurance Committee met on July 21, when the Joint Drug Sub-Committee's minutes stated that it had been decided that the question of concentrated waters be referred to the Panel Committee. In reply to the Chairman, Dr. Fordyce said these were flavouring-waters used where some of the ingredients of a medicine were not very agreeable either to the taste or to the smell; the introduction of an aromatic water improved matters. As regarded concentrated waters, they were in the nature of essences, and, being ordered as essences, they made a little difference to the dispenser to what they would if ordered in the ordinary way, not concentrated. There was a slight difference to the chemist which ought to be allowed, and which the Panel Committee would allow. [The Sub-Committee's minute referred to medicated waters.—ED.]

Grimsby.—At the quarterly meeting of the Insurance Committee on July 20, Mr. J. W. Wilkin was re-elected Chairman and Mr. Benson Vice-Chairman. It was mentioned that the Pharmaceutical Committee had written to certain chemists who fail to carry out their Insurance agreement by closing before 8 P.M.; and the local Pharmacists' Association had been asked to assist the Committee in the matter. A discussion arose as to the admission to the panel of a chemist of military age; but the Clerk pointed out that every qualified chemist had a legal right to be placed on the panel, though, if he were called up for military service, the Committee could make what representations to the Commissioners or the Tribunal they thought fit.

London.—The County of London Insurance Committee met at the County Hall, Spring Gardens, S.W., on July 26, when the Finance Sub-Committee reported that, following on the undertaking given by Sir E. Cornwall, an application has been made to the Commissioners for a grant of 1,500*l.* to defray the liabilities of the Panel Committee, and for 1,512*l.* for those of the Pharmaceutical Committee, up till September next. The Panel Committee have, after some months' correspondence, agreed to pay the balance of the account (76*l.* 15*s.* 2*d.*) due for the examination and checking of prescriptions for 1914. The General Purposes Sub-Committee submitted the following comparative statement of dispensing figures for the area:

Year	No. of Scripts	Total Amount of Accounts £ s. d.	Average Cost per Script d.
1913	5,041,555	155,516 18 10	7.4
1914	4,871,108	188,236 0 6	9.3
1915	4,390,834	144,099 17 7	7.8
1916	3,682,198	97,778 5 6	6.37

The additional war allowance of 0.3*d.* per script in respect of 1916 amounts to 5,423*l.* 16*s.* The Pharmaceutical Society's check on the Insurance Committee's pricing department showed that the value of the prescriptions selected for checking was 705*l.* and the number of scripts 26,460. The total value of errors discovered was 1*l.* 6*s.* 4*d.* and the number of errors 605. The net value of the alterations to be made in chemists' accounts, when the deductions were balanced against the additions, was 0.03 per cent. The Sub-Committee considered this highly satisfactory. In view of the war restrictions on glycerin and syrups, the Pharmaceutical Committee suggested as a substitute for those articles in the London Insurance Pharmacopœia preparations the use of *Mist. Trag. Chlorof.*, made according to the following formula:

Gum tragacanth in powder ...	30 gr.
Chloroform	40 min.
Water to	10 fl. oz.

This is practically a half-strength mucilage of tragacanth made with double-strength chloroform-water. It is recommended as being easily made, inexpensive, and keeping well for a reasonable period. In the case of syrup. tolut. it is stated that the mist. trag. chlorof. should contain the due proportion of liq. tolu. pro syrup., and in the case of syr. pruni virg. 20 minims of tr. pruni virg. 1898, or an appropriate quantity of concentrated tincture, should be employed to each fluid drachm of mist. trag. chlorof. The Panel Committee supported the recommendation, and Dr. H. H. Mills moved its adoption by the Committee, and that panel practitioners and chemists be so informed. The report of the Pharmaceutical Service Sub-Committee referred to several complaints against panel chemists. Six prescriptions of one medical man were declined by chemists as they contained preparations not usually kept in stock, and two ordered lozenges containing cocaine. The Sub-Committee exonerated the chemists, but think that when articles are not in stock an offer to procure them should be made. Several complaints of discourtesy and refusal to dispense prescriptions were made against another chemist, who also ignored the communications of the Sub-Committee, and for these offences is to be censured. In another case a mixture for rheumatism was found on analysis to contain no sodium salicylate or potass. bicarbonate, both of which had been prescribed; the medicine had been dispensed at a branch shop of a large firm. The complaint could not be satisfactorily proved, but a caution is to be sent to the firm. Gamages, Ltd., Holborn, E.C., and the St. Quintin's Cash Drug Stores, North Pole Road, W., have been added to the chemists' panel, and the name of Thomas Woolldridge, North Pole Road, W., has been removed.

Portsmouth.—The Pharmaceutical Committee retain office for another year under the Commissioners' continuation scheme. Mr. W. R. Atterbury remains Secretary, and Mr. T. Brewis succeeds Mr. T. Postlethwaite as Chairman.

Sheffield.—The Pharmaceutical Committee met on July 20, Mr. A. H. Culverhouse in the chair. The checking report for February and March was received and approved. The Executive Committee's report and balance-sheet for the year ended February 28 was considered very satisfactory. The Panel Committee advised chemists to refer to the doctor for instructions when lin. alb. is prescribed unless "B.P.C." is specified. The Insurance Committee is to be consulted as to remuneration for such extra labour due to the prescriber's omission. The Executive Committee's proposals as to payment for Insurance dispensing was discussed and approved, and it was considered that each area should send a delegate to any conference dealing with the terms of the chemist's agreement. A meeting of panel chemists is to be called for August 15, and attention was directed to the altered treatment of Insurance prescriptions under the Cocaine Regulation. Mr. A. H. Culverhouse was elected Chairman, Mr. E. Haining Vice-Chairman, and Mr. H. Antcliffe Secretary for the ensuing year.—The half-yearly meeting of the North-East Midland Pricing Bureau was held at the Town Hall, Sheffield, when the Secretary (Mr. W. E. Hart) reported that during the first half of the current year the Bureau had dealt with 3,612 chemists' accounts and priced 1,043,351 prescriptions, of a total value of 24,682*l.* 13*s.* 8*d.*—figures in excess of those for the corresponding period of 1916.

Southampton.—The annual meeting of the Insurance Committee was held on July 16, when Mr. T. Lewis was re-elected Chairman. In the course of his address Mr. Lewis said he was afraid the chemists had not been treated so well as the doctors. In 1915 they received 2,733*l.* for 86,536 prescriptions, but in 1916 only 2,192*l.* for 91,401, which was due to the new Tariff. The chemists were not so well organised as the doctors. He did not view the position with regard to them as a subject for congratulation. Hampshire paid the lowest of any area, and Southampton came next. It was decided to support the Executive Committee of the National Association in the effort to promote the establishment of a Ministry of Health.

Surrey.—The Insurance Committee met at Caxton Hall, Westminster, on July 25, when the Finance and General Purposes Sub-Committee's report mentioned that from January to April eighty-eight chemists' accounts had been received late by the Joint Committee on Pricing Prescriptions, resulting in extra expense in dealing with them. The report urged the necessity of chemists making every effort to comply with the terms of the agreement, which include the prompt rendering of accounts. In respect of prescription-pricing the Commissioners have made a grant to the Committee of 220*l.* for 1916 and a similar sum for 1917. The Military Service Sub-Committee reported that of 194 chemists' shops in the area 142 were considered necessary, 322,466 Insurance prescriptions having been dispensed during 1916 Sixty-three persons of military age were recommended for retention, 81 were over age, 9 physically unfit, and 2 ladies.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

DISPENSERS IN THE ARMY.

Mr. Macpherson informed Mr. Mallalieu on July 24 that there are qualified dispensers serving as privates in the Royal Army Medical Corps, and they have the same opportunities for promotion as other men in the corps.

COST OF THE WAR.

In the House of Commons on July 24, a vote of credit was moved for a sum not exceeding 650,000,000*l.*—an amount which exceeds by 150,000,000*l.* the largest sum previously asked for in the House. The Chancellor of the Exchequer (Mr. Bonar Law) gave figures which showed that the cost of the war is now nearly seven millions a day. A large amount of the money is in the form of advances to Allies and Dominions.

SULPHATE OF COPPER FOR SPRAYING.

Sir Richard Winfrey informed Sir John Barlow in the House of Commons on July 24 that sulphate of copper has been used in mixtures for spraying potatoes for many years in many different countries with extremely beneficial results. Experiments and experience have made it certain that copper-sulphate mixtures are the best-known fungicide for the prevention of the late blight in potatoes, and the Board are not prepared to recommend the use of paraffin and water instead.

PATENTS AND DESIGNS BILL.

Mr. Peto asked the President of the Board of Trade on July 23 whether any progress has been made with the Bill to amend British Patent Law, which was in preparation in January last; when it is proposed to introduce this Bill; and whether he will see that it is introduced at such a date as will enable it to be passed into law before the House adjourns for the Summer Recess.

The Parliamentary Secretary to the Board of Trade (Mr. Roberts) replied that he hopes to be able to introduce the Patents and Designs Bill at an early date.

MINERAL-WATER TAXATION.

Mr. Pemberton-Billing asked the Chancellor of the Exchequer on July 19 whether he is aware that, owing to dual taxation, manufacturers of sweetened mineral waters are paying a tax of over 50*l.* on every ton of sugar they use; and whether, having regard to the Government attitude towards alcoholic beverages, he will see that manufacturers of non-alcoholic beverages are not unduly and unjustly burdened by taxation.

Mr. Bonar Law replied that he is not aware that makers of sweetened mineral waters pay such a tax as that suggested.

ANTI-TYPHOID VACCINE.

Mr. Chancellor on July 18 asked the Under-Secretary of State for War whether the stocks of anti-typhoid vaccine used for the British Army are renewed by the collection of fresh typhoid bacilli; from what source are these typhoid bacilli obtained; and what methods are used to make certain that typhoid and no other bacilli are used in the preparation of the vaccine.

Mr. Macpherson replied that the same strain of typhoid bacilli has been used for many years, and fresh typhoid bacilli are not collected for renewal. The vaccine is thoroughly tested by approved methods at every stage in the manufacture to ensure that no other bacilli are present.

IMPORTATION OF MOLASSES.

Mr. Duncan Millar asked the Minister of Munitions on July 16 whether arrangements have been completed to make use of the existing stocks of bonded spirits for the manufacture of munitions, so as to free the tonnage for the importation of molasses and spirits for that purpose and to release the grain and other food-materials used in the production of alcohol for munitions and commercial purposes.

Dr. Addison replied that the answer is in the negative, as the alcohol required for munitions and commercial purposes is for the present obtained from distilleries producing yeast and from molasses, the importation of which does not occupy tonnage required for food-materials.

CHEMISTS AND SPECIAL FLOUR.

In the House of Commons on July 25, Mr. Arthur Fell, M.P., asked the Parliamentary Secretary to the Ministry of Food if the special flour to be supplied for the manufacture of bread on doctors' certificates is to be supplied by chemists or by bakers; if the latter, are all bakers to be supplied with stocks of this special flour; and, having regard to the abuses which will arise under such conditions, will the whole matter be reconsidered.

Mr. Clynes replied that special flour, when authorised, is supplied, not by chemists or bakers, but by millers, to whom a licence for a specified supply is forwarded in each case. He is not aware that any abuses have arisen, or are likely to arise, under the system, and he sees no reason to vary it.

INDIAN INDIGO-TRADE.

Sir J. D. Rees asked the Secretary of State for India on July 19 whether he is aware that dyes are entering the United Kingdom through neutral countries, which competition, together with that of synthetic dyes manufactured in England (of which, however, no complaint is made), prejudices the indigo-trade of India; and whether he will take steps on behalf of that trade.

Mr. Montagu replied that, notwithstanding the competition described in the question, a good and profitable market exists for all natural indigo produced in India. The Indian Government, in conjunction with the Bihar Planters' Association, is endeavouring to improve the processes of production and manufacture of natural indigo with a view to securing greater economic efficiency.

JENA GLASS.

General Croft on July 16 asked the First Commissioner of Works whether, as a result of research and experimental work which has been carried on by glass-manufacturers, a glass has now been produced of as good quality as Jena glass; and, if so, whether he will give an undertaking that no more orders will be given by the Government to Falck, Stadelmann & Co., a firm of German origin.

Colonel Gibbs replied that a special fire-resisting glass can now be made in this country, but as the firms who have facilities for its manufacture are engaged on more important work for War Departments, it is not practicable to place orders with them for this glass in chimney form. In the circumstances, effect cannot be given to the suggestion in the last part of the question without harm to the public service.

POISONOUS-GAS EXPERIMENTS.

In the House of Commons on July 16, Mr. Chancellor asked the Home Secretary whether the Stock Farm, Porton, used by the War Office, is licensed for vivisection; if so, will he state the names of the vivisectors attached thereto, the nature of the experiments upon animals performed there, and whether these include gas-poisoning; and if he will allow a doctor of medicine who is also a Justice of the Peace to see the work that is carried on there.

The Home Secretary replied that the War Department experimental ground at Porton has, at the request of the Ministry of Munitions, been registered as a place where experiments on animals may be performed. Mr. J. Barcroft, F.R.S., and Lieut.-Col. A. W. Crossley, F.R.S., are authorised to perform experiments, which are to study the effects of poisonous gases and liquids. The place is regularly inspected.

DUTY ON GINGER-BEER.

Mr. Aneurin Williams on July 20 asked what Excise duty will be payable under the Budget now before Parliament upon a gallon of ginger-beer and of light brewers' beer respectively; and what are the respective alcoholic strengths of these two liquors.

Mr. Bonar Law, in reply, said that ginger-beer is taxed as a table-water at 4*d.* per gal. Beer is taxed according to its original specific gravity; thus on beer of an original gravity of 1,036° (the limit fixed by the Food Controller in connection with the light beer which brewers are allowed to brew during the current quarter in excess of the amount allowed under existing restrictions) the duty is about 5½*d.* per gal. There is no fixed percentage of alcohol in either ginger-beer or beer of any particular gravity.

DRUGS FOR THE NAVY.

Mr. Ffrench on July 16 asked the First Lord of the Admiralty whether he is aware that the local surgeons and agents of the Admiralty are receiving only 2*s.* 6*d.* per patient for professional attendance and supplying medicine to the coastguards and men of the Royal Navy, and 1*s.* per mile one way for locomotion-expenses; whether applications have been received requesting an increase of these rates; and whether, having regard to the increased cost of living and of drugs and petrol, he will see his way to recommend an advance of fees and allowances.

Dr. Macnamara, M.P., replied that the rates of remuneration are, with a few exceptions in which higher rates are warranted by the circumstances, 2*s.* 6*d.* per each visit to, or consultation with, each patient (and not 2*s.* 6*d.* per case), with mileage allowance as stated. Only one application for increased remuneration has been received during the past year, although there are 580 surgeons and agents. A case for a general increase of fees and allowances has not therefore been made out.

Military Tribunals' Decisions.

BATH.—The case of Mr. W. F. Lloyd, manager to Davis & John, Ltd., was again before the Tribunal. On the last occasion there was an adjournment for one month for a suitable substitute to be found, but the company now stated that they had been unable to find one. The case was adjourned for a month, for the purpose of referring it to the National Insurance Commissioners, as the military had not agreed with the recommendation of the local Insurance Committee that Mr. Lloyd should remain.

BERMONDSEY.—The Military Representative stated that in the event of certificates granted to men under the protected trades schedule being withdrawn he should not oppose applications being lodged for the further exemption of the men at the Tribunal.—W. A. Smith & Co., essential-oil distillers, of Clack Street, Rotherhithe, were granted two months' exemption for a still-attendant thirty years of age, passed for labour at home.

BROMLEY (KENT).—The Tribunal has granted three months' exemption to Mr. Harry H. Cuthbert, chemist and druggist, of Shortlands, and conditional exemption to Mr. Henry Farrar, assistant to Mr. R. C. Davenport, chemist and druggist, of London Road; Arthur Hall, assistant to Mr. John Timmis, chemist and druggist, of Mason's Hill; Mr. H. Portlock, of Market Square; and P. A. Ward, with Goulden & Allen, chemists and druggists, of Widmore Road.

COLCHESTER.—The Tribunal has dismissed a military appeal against conditional exemption held by H. Motson, dispenser with Mr. A. W. Nunn, Ph.C., of Crouch Street.

DARTFORD.—Mr. Reginald Targett was given to January 4 to finish his apprenticeship with Horrell & Goff.

DOUGLAS (I.O.M.).—Conditional exemption was granted to Mr. H. E. Dewhurst, chemist and druggist. The case of Mr. A. Martin, chemist, was adjourned, the question of certified occupation being raised.

GERRARDS CROSS.—Mr. John Robert Jewson, Ph.C., asked for an extension of his certificate of exemption granted twelve months ago. Applicant contended that he served a population of 9,000 in Gerrards Cross, Chalfonts, Denham, Hedgerley, and Fulmer. He was the only pharmaceutical chemist in the district, and continually resident on the premises. His was the first chemist's business established at Gerrards Cross, and had been built up by personal efforts since 1908. The application was adjourned until the next meeting, for further information from the County Insurance Committee.

HITCHIN.—Mr. A. E. J. Radnor, dispenser and chemist's assistant, was appealed for by Perks & Llewellyn, and three months' exemption was granted.

SOMERSET.—Lewis Wing, Ltd., chemists, of Weston-super-Mare, appealed on behalf of Mr. Evelyn Arthur Smith, pharmacist, manager of their establishment at 8 The Boulevard, Weston-super-Mare. The appeal was dismissed, Mr. Smith not to be called up for a month.

STOURBRIDGE.—Mr. Jesse Chance, chemist's assistant, employed by Mr. G. S. Simpkins, 74 High Street, Stourbridge, was appealed for by the employer on the ground that he was the only male employé of military age left. He was granted one month final.

WORCESTERSHIRE.—Mr. C. E. Evason, managing director of Cook, Ltd., Stourbridge, appealed against the word "final" attached by the local Tribunal to the exemption granted to his assistant, Sydney Tooby, and the word was removed from the certificate.

Pharmacists' Assistants in Russia.

(From Our Russian Correspondent).

THE position of the pharmacist's assistant in Petrograd has been materially improved as one result of the revolution. In order to make quite clear the sequence of events it is necessary to refer to the situation under the old *régime*. At that time no members of the Hebrew persuasion, male or female, were permitted to live in Petrograd, with the exception of the following: Commercial men of the first guild, medical men, pharmacists, and dentists engaged in their profession, and those possessing a university education. A very small percentage of Hebrews was allowed to enter the gymnasium or high school, and of these only a few received permission to pass through to the university. It naturally followed that to be an assistant pharmacist was a privilege, and those enjoying it were content with only a small salary. Indeed, it has been whispered that some pharmacists possessed a source of income in the numerous assistants entered up in their pharmacies. With the outbreak of war the position of Hebrew assistants became still more anomalous. When they were called up for military service they were not given commissions and allowed to serve as military pharmacists, as were their more favoured Russian brethren, but had to serve in the ranks, and there is a great difference between the conditions under which Russian and British privates serve. Nevertheless, even Hebrew assistants serving in a pharmacy were freed from military service, so that the privileges attaching to assistants in pharmacies were considerably enhanced. Before the revolution no meeting could be held, no union could be formed, no circular could be printed without the permission of the police. With the revolution came freedom and equality; freedom to organise and combine; equality in religion, politics, and nationality. Within a month, pharmacists' assistants were organised and interorganised, as was every class of labour, from domestic servants onwards; even pickpockets have formed their union! The natural result followed; the pharmacists' assistants demanded increased salaries, the following minima being insisted on: For an assistant in the first course 200 roubles a month, second course 225 roubles, and third course 250 roubles. For a higher qualification (provisor) a minimum of 300 roubles was demanded. In addition there was to be a six-hours day, night-work once a week, and Sunday work one Sunday in five. Before the war 100 roubles were approximately equal to 10*l*. of English money; to-day the value is less than 5*l*.

Employers naturally resisted the demand, and a strike was threatened. The crisis lasted three days, and the whole question was discussed in the newspapers. The masters pointed out that the cost of dispensing prescriptions would have to be increased. Prescription-filling is about the only work in a pharmacy, and prices are fixed according to a scale depending upon composition, as under the Insurance Tariff in Great Britain. Since no doctors dispense in Russia the position threatened to become very serious, and the Petrograd authorities took the matter up and intimated to the masters that in the event of their refusing the demands of the assistants the city would open municipal pharmacies. Thereupon the mastors capitulated and gave in on all points, with the result that the position of the assistant pharmacists has been immensely improved.

The Lady Commercial Traveller.

By a Chemist's Daughter.

"*Call upon a man of business in the hours of business, transact your business, and go about your business in order that he may have time to attend to his business.*"

AT the commencement of the war, which bids fair to enlist the manhood of all nations, I was engaged as an English mistress in Germany. Having effected a safe and speedy return to my native land, I decided to adopt the *rôle* of an Ambassador of Commerce if I could obtain a post. Beyond a casual acquaintance with my father's pharmacy my business experience was *nil*. It was with some diffidence I made application to my present employers, as beyond being a bit of a polyglot, and possessed of a confidence inspired by travel and residence abroad, there was little to commend me to their favourable notice. My application was acknowledged with business-like courtesy, an interview arranged, likewise salary, and after a probationary period "in the house," during which time I was initiated into the details of the productions of the firm, I was duly launched on the road. It was with a feeling akin to "stage-fright" I entered the first pharmacy to solicit orders, inquire as to sales, note complaints, etc.—the last-named plays an important part in the work of a traveller: differences requiring to be adjusted, and business relations made to work with that harmony and good will which should at all times prevail between a firm and its customers. By a due observance of the etiquette of the road I soon established friendly relations with my fellow-travellers and clients. I would here suggest that an identification-mark, such as a neat button with the letter "T," would facilitate matters for women commercials. Generally I was mistaken for a lady customer, and greeted with, "What may I have the pleasure of doing for you, madam?" The adoption of the button would obviate this difficulty. Again, it sometimes happened that a traveller would follow me in under the same impression. Fortunately I had no samples to carry. Displaying one's wares like a modern Autolycus no doubt promotes sales, but most women have their physical limitations, and carrying a sample-bag is a severe tax on them. A traveller must be prepared to accept rebuffs, especially in these days when staffs are diminished, supplies irregular, and work generally conducted at high pressure, inducing a state of nerve-tension which is not relieved by interruption from travellers or others.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. As a result of the War wholesale houses have had to contend with many fresh difficulties, some of which have involved greatly increased expenses. Shortage of labour with higher wages (equal to almost double pre-war rates) has a direct effect upon values of goods, as also have railway carriage, freights, cartage, and other charges. The foregoing and other incidental outlays prevent retail buyers purchasing at the market prices quoted here.

42 Cannon Street, E.C. 4, July 26, 5.30 p.m.

WITH continued quiet markets, little of interest has transpired, and the week has yielded few changes in prices. Should the proposals to reduce American freights and insurances materialise, there is a possibility of easier prices for some of the imported chemicals and drugs, but too much reliance cannot be placed on this factor at the moment. Meanwhile, with fewer imports, spot holders are able fully to maintain their prices all round, as stocks gradually diminish. Bromide prices remain irregular, and the advance announced last week is not general, there still being sellers at the old rates. Potassium, however, should go better, as it is below the American parity. Quinine is now on a higher level, and with makers' difficulties becoming more acute in regard to supplies of bark, etc., the prospects are for a further advance later. Cream of tartar is 2*s.* 6*d.* dearer and very scarce. Glucose and maize-starch powder show a substantial advance; citric and tartaric acids are on the easier side. Barbitone is rather lower, and salicylates remain firm. Among drugs, etc., gentian is firmer. French and Belgian chamomiles have been selling at high prices, and the demand for cubebs keeps up; ergot is quiet, and menthol slow. Cloves are quiet and easier, but last week's advance in clove oil is now more general. Shellac is firmer.

Higher	Firmer	Easier	Lower
Aloes (Cape)	Cream of tartar	Agar-agar	Barbitone
Benzoin (Siam) (sifts.)	Gentian	Calcium lactate	Honey
Benzoin (Sumatra)	Quinine	Cloves	Senna (Tinn.)
Calumba	Shellac	Hydroquinone	
Cascarilla		Methyl salicylate	
Coriander-seed (c.i.f.)		Metol	
Fenugreek-seed		Resorcin	
Glucose			
Opium (Persian)			
Starch-powder (maize)			

AGAR-AGAR.—Very quiet, with spot sellers of good at from 1*s.* 11*d.* to 2*s.* per lb.

ASPIRIN remains firm at from 14*s.* 6*d.* to 15*s.* per lb.

BARBITONE is rather lower at 110*s.* per lb. on the spot.

BELLADONNA-ROOT.—There are buyers of Indian at about 6*s.* to 6*s.* 6*d.* per lb., and for Japanese to arrive in about six weeks 230*s.* per cwt. is quoted.

BROMIDES.—It may be emphasised that the advance last week, although initiated in the United States, has not been established here, as there are still influential sellers of potassium at 6*s.* 6*d.* for crystals and at 6*s.* 3*d.* for granular, 3*s.* 9*d.* for ammonium, and 2*s.* 6*d.* for sodium, which are practically the old figures.

CALCIUM LACTATE has sellers at from 9*s.* 6*d.* to 10*s.* per lb. net on spot, being slightly easier.

CANARY-SEED.—A steady business is passing at 86*s.* to 88*s.* per quarter according to quality.

CASCARA SAGRADA.—Our New York correspondent writes on July 6 that there is a good export inquiry for new crop, which is quoted at 12½c. per lb.; prices will undoubtedly advance, as stocks are light

CELERY-SEED is firm at from 135*s.* to 145*s.* per cwt. for French.

CERIUM OXALATE is offered at 4*s.* 6*d.* per lb. net on spot.

CHAMOMILES.—Belgian old crop on the spot are offered at 380*s.* per cwt. and French at 440*s.*

CHLORAL HYDRATE is offered at from 9*s.* 3*d.* to 10*s.* per lb. for duty-paid crystals.

CITRIC ACID is quoted at from 3*s.* 3*d.* to 3*s.* 4*d.* as to seller.

CLOVE OIL.—The English distillers' price is now 9*s.* 6*d.* per lb.

CLOVES are about 1*d.* easier on the week, with sellers of fair Zanzibar at 1*s.* 2½*d.* per lb. on the spot.

COD-LIVER OIL.—Our Bergen correspondent writes on July 16 that the market remains lifeless, and no quotation is available. On the spot (London) from 425*s.* to 430*s.* per barrel is quoted for finest medicinal Norwegian 1916 oil.

COPAIBA.—Our New York correspondent under date of July 6 writes that there is a very heavy export demand. The price of prime natural goods is $1.10, while U.S.P. can be sold as low as 90c. per lb.

CORIANDER-SEED is unchanged on the spot at 67*s.* 6*d.* per cwt. for Morocco and at 60*s.* for East Indian. New crop Morocco for shipment is dearer, with business done at 52*s.* 6*d.* per cwt. c.i.f. terms.

CREAM OF TARTAR.—With small spot supplies and good demand, spot prices are firm at from 250*s.* to 252*s.* 6*d.* per cwt. for 98-per-cent. and 99 to 100 per cent. respectively.

CUBEBS.—Business has been done privately at 18*l.* per cwt. For the drug-auction 27 bags were catalogued, and will be disposed of privately.

CUMIN-SEED is steady at 67*s.* 6*d.* per cwt. for sifted Morocco.

DILL-SEED is firm at 55*s.* per cwt. for good clean East Indian.

ERGOT is quiet at from 2*s.* to 2*s.* 2*d.* per lb. for Russian on the spot.

FENUGREEK-SEED is dearer. East Indian is selling at 37*s.* on the spot, but Morocco is held off the market for 40*s.*

FORMALDEHYDE is firm at 125*l.* per ton net on the spot in casks.

GALLIC ACID.—Pure is offered at 4*s.* 9*d.* and *tannic* acid leviss at 6*s.* 6*d.* per lb. on the spot.

GAMBOGE.—A parcel of 29 cases was catalogued for auction, but the consignment was not released by the Customs in time.

GENTIAN is firmer at 80*s.* per cwt. for French and 95*s.* for cut on the spot.

GLUCOSE is dearer, American liquid having been advanced by 6*s.* per cwt. to 52*s.* and solid is 55*s.*, both ex store. Maize starch-powder has also been advanced to 44*s.* 9*d.* The high freights and scarcity is responsible for the higher prices, although the demand is quiet.

GUAIACOL CARBONATE is offered at from 132*s.* 6*d.* to 135*s.* per lb. net on spot and *liquid* at 85*s.*

HEXAMINE has sellers at from 3*s.* 5*d.* to 3*s.* 6*d.* per lb.

HYDROQUINONE is rather easier at from 11*s.* 6*d.* to 12*s.* per lb. net on the spot.

INSECT-POWDER is offered at from 1*s.* 8*d.* to 2*s.* per lb. according to quality.

IODIDES.—Competition between the English makers of potassium iodide and that imported from Japan has been more acute of late, but it is as well to remember that the English reduction clause protects buyers against any further decline for fourteen days from date of invoice, so that in the event of a reduction they get the full benefit.

LIQUORICE-ROOT.—Decorticated is quoted at 105*s.* and cut at 112*s.* per cwt.

MARSHMALLOW.—Decorticated Spanish root is offered at 120*s.* per cwt. on the spot.

METHYL SALICYLATE is offered at 5*s.* per lb. on the spot.

METOL is offered at the rather lower price of 67*s.* 6*d.* per lb. net.

MILK-SUGAR.—Spot stocks are extremely small, and for best Dutch 230*s.* is wanted. A London report dated July 20 intimates that none is available for export from the U.S.A., where full prices are paid for the limited quantities obtainable. Several parcels N.Z. found their way into consumption immediately after arrival in this country, and it appears impossible to buy for forward shipment. The English market is consequently dependent on the small lots offered from time to time by the Dutch makers, and reports from Holland are very gloomy, milk being scarce and fuel fetching high prices. Spot (London) stocks are extremely low. Our New York correspondent writes on July 6 that manufacturers are unable to make immediate delivery, and holders are selling at 40c. per lb.

OPIUM.—Supplies of druggists' quality are exhausted, and as no permits to import have been allowed, wholesale druggists and manufacturing chemists are practically without

supplies for making tinctures and other opium-preparations. Persian 10-per-cent. is dearer, spot sales having been made at 45s. per lb., at which there are further buyers, and a further advance would not be surprising, as spot stocks are small and no further importations are taking place from the Persian Gulf.

PARALDEHYDE remains at 14s. per lb. on the spot.

PEPPER is steady but quiet, with sellers of fair *black* Singapore on the spot at 10¾d., Aleppy 11d., and Tellicherry 11¼d.; value of fair *white* Singapore is 1s. and Muntok 1s. 0½d.

POTASH SALTS.—*Permanganate* is offered at from 14s. to 15s. net on spot, *Sulphoguaiacolate* at 99s. 6d., *Metabisulphite* 2s. 2d. per lb., *Carbonate*, 80 to 85 per cent., 25l. per ton.

QUININE.—The spot value is 2s. 10d. per oz. for sulphate, which has been paid for small lots. The future position is regarded as somewhat precarious in view of the difficulties in shipping bark to Holland and the shortage of fuel.

RESORCIN varies in price from 70s. to 80s. per lb. net on spot according to holder.

ROSE-PETALS.—New crop French are offered at 3s. 8d. per lb. on the spot.

SACCHARIN.—For parcels of American to come forward 310s. per lb. is quoted for 550 strength, and spot is worth 350s., but very difficult to find sellers.

SALICYLATES.—*Salicylic acid* of American make for July shipment is offered at 7s. 6d. per lb.; there are still spot sellers at this price in a limited way. Sodium salicylate is offered at from 8s. 6d. to 9s. and forward at 8s. 6d. per lb.

SHELLAC is firm and rather dearer, with the usual standard TN Orange quality selling at from 218s. to 220s.; fine Orange is 295s. and AC Garnet 230s. per cwt.

SPARTEINE is only obtainable in very limited quantities at 8s. 6d. per oz. net.

SULPHOCARBOLATES.—Both zinc and soda are offered at 3s. 3d. per lb. net.

TARTARIC ACID is quoted at from 2s. 11d. to 3s. per lb. on the spot.

TERPIN HYDRATE is offered at 2s. 6d. per lb. net on spot.

TURPENTINE has ruled quiet almost throughout, American closing on the spot at 56s. per cwt.

London Drug-auctions.

Commercial Sale Rooms,
Mincing Lane, E.C., July 26.

Business was rather brisker at to-day's sales, a larger quantity than usual being disposed of. Arrivals of drugs meanwhile have been small, and this probably accounted for the better spot demand. Cape aloes is held for a substantial advance, being extremely scarce. Buchu continues firm, and also scarce. Tolu balsam remains steady. In Sumatra benzoin no business was done, as the importers' limits were considered too high. Siam was in better demand at very firm prices, the lower qualities being dearer. Cascarilla brought extremely high prices, and for ordinary wormy calumba-root much dearer rates were paid. Gamboge was not offered, but a new consignment has arrived. Honey was extremely quiet, and prices declined on an average about 7s. 6d. per cwt. It is expected that as the result of the more reasonable level of prices better business will be done, as the rates are considered more on a level with other sweetening substances. Matto Grosso ipecacuanha was in fair demand, and as stocks are moderate there is little prospect of cheaper prices. Kola was firm and in fair demand. Rhubarb is extremely quiet but steady, and sarsaparilla was of little interest, the favourite descriptions not being offered. Tinnevelly senna was mostly of common quality, and was too highly limited; the tendency of both leaf and pod is easier. Turmeric is held for higher prices, and for beeswax the demand is quiet all round, but full prices were paid for Jamaica for the home trade. The following table shows the quantity of goods offered and sold:

		Offered	Sold
Aconite (Jap.)		10	0
Agar-agar		5	0
Aloes—			
Cape		10	0
Curaçao	(cs.)	7	7
Socotrine	(kgs.)	48	0
Zanzibar	(cs.)	17	4
Anise oil, star		8	0
Anise, star		20	0
Annatto-seed		79	0
Balsam tolu		25	*5
Benzoin—			
Siam		7	5
Sumatra		145	8
Buchu		6	2
Calumba		135	51
Cannabis ind.—			
African		63	0
Cantharides		14	0
Cardamom-seed		2	1
Cascarilla		2	2
Cashew-nuts		12	0
Cassia fistula		34	0
Chiretta		89	0
Cinchona		14	0
Cinnamon-bark oil		3	0
Civet	(hrns.)	12	0
Coca-leaves		47	47
Cochineal		43	0
Colocynth		2	0
Condurango		45	0
Copaiba		5	0
Cubebs		27	0
Dill-seed		65	1
Dragon's-blood		15	1
Ergot		4	*4
Gum acacia		172	0
Gurjun oil (drms.)		40	0
Ipecacuanha—			
Cartagena		14	0
Johore		3	0
Matto Grosso		22	10
Honey—			
Brazil		38	0
California		100	0
Cuban		612	93
Demerara		3	3
Hayti		216	0
Jamaica		306	24
Madagascar		2	2
St. Lucia		16	2
San Domingo		15	0
West Indian		1	0
Insect-flowers		10	0
Insect-powder	(cs.)	20	0
Jalap		36	0
Kamala		10	0
Kino		4	0
Kola		165	125
Laurel-leaves		40	0
Lemongrass oil		2	2
Lemon oil		1	0
Liquorice-root		108	0
Lycopodium	(cwt.)	5	0
Manna		2	0
Nux vomica		236	0
Olibanum		157	0
Orange-peel		41	0
Orchella-weed		46	0
Orris (Flor.)		3	0
Oxalic acid		3	0
Peppermint oil		3	0
Quince-seed		1	0
Rhatany		7	0
Rhubarb (Ch.)		64	0
Rose-petals		25	0
Saffron	(tins)	2	0
Sandarac		10	0
Sarsaparilla—			
Mexican		30	*5
Native Jam.		2	2
Scammony-root		189	0
Senna and pods—			
Alex. and Arabian		187	16
Tinnevelly		587	82
Squill		49	4
Sticklac (Cal.)		20	0
Strophanthus		4	0
Tallow	(cs.)	30	0
Tamarinds		25	25
Tonka-beans		9	0
Tragacanth		222	109
Turmeric		435	0
Wax (bees')—			
Abyssinian		2	0
Chilian		143	30
East African		34	0
Egyptian		5	2
Jamaica		32	12
Madagascar		34	34
Mozambique		42	0
St. Lucia		5	2
Zanzibar		15	15

* Sold privately.

ALOES.—Cape is very scarce, only 10 cases being offered, of which four, consisting of fair bright hard seconds, were bought in at 65s., a bid of 53s. being refused, and for three cases of not quite so good, part slightly soft, a bid of 52s. is to be submitted. Good hard Socotrine in kegs is scarce and worth from 100s. to 105s., and for soft to stiff pasty from 90s. to 95s. is wanted. Four kegs of scrapings and strainings sold at 10s. per cwt. without reserve. Of Curaçao aloes, seven boxes offered and sold without reserve, including three boxes at 70s. for fair livery, and four boxes at 67s. 6d. for ordinary dull and coarse.

BALSAM TOLU.—Five cases had been sold privately, and for a further 20 cases in another interest 2s. 2d. was the limit for a softish and partly drossy parcel.

BENZOIN.—Importers of Sumatra have raised their limits but no business resulted, although arrivals have been on an extremely small scale of late. A pile of 46 cases good almondy Sumatra seconds was limited at 9l. per cwt., and only oddments were disposed of, aggregating 8 cases of partly old fractured common to fair seconds, and country-cut at from 5l. 10s. subject to 7l. 7s. 6d. *Siam*, of which seven cases offered, was in better demand, five cases realising 23l. per cwt. for small to bold yellow loose almonds of good flavour, 18l. for small yellow grains in shivery block, 11l. for hard siftings in brown block, and 8l. 5s. per cwt. for garblings.

BUCHU continues firm. Two bales of slightly yellowish and stalky rounds sold without reserve at 4s. 10d. per lb.; for a further two balos of yellowish and partly stalky rounds 5s. 6d. was wanted, and for two bales of fair longs 4s. 6d. per lb. on the usual conditions.

CALUMBA was much dearer, 51 bags of ordinary, partly wormy natural sorts, selling without reserve at from 75s. to 89s., and inferior dark and wormy at 31s., being considerably dearer. A further lot of 10 bags small to bold good round washed were limited at 100s.

CARDAMOMS.—Two cases of Bombay seed offered and one sold at 1s. 10d. per lb.

CASCARILLA is extremely scarce. Two bales of fair brown quilly realised the extreme figure of 168s. per cwt.

COCA-LEAVES.—A lot of 46 bales Java sold at from 4d. to 7d. per lb. for powdered, as to quality; 26 bales of brown Ceylon-Truxillo *leaf* sold at 4d., and three bales of rather better but part country-damaged went at 5½d. Six bales of Java siftings sold at 2d.

DILL-SEED.—A parcel of 64 bags was limited at 50s., a single bag going at 50s. per cwt.

DRAGON'S-BLOOD.—A single case of fair Singapore lump and saucer sold at 7l. 10s. per cwt.

HONEY.—"Prices are now declining to a more reasonable level, and compare favourably with those of other sweetening substances," said the principal honey broker before commencing his sale of honey. Certainly there was evidence of this in the auction, and an average reduction of about 7s. 6d. per cwt. was accepted, but the demand was poor, and although a considerable quantity offered, good quality was not plentiful, a certain proportion being out of condition. Jamaica was all bought in, with the exception of 24 barrels, which sold at 77s. 6d. for fair bright amber liquid, and 75s. for dark amber and setting; 82s. to 83s.

will readily buy good bright amber liquid. For white set San Domingo 80*s.* was refused, as this description had been selling privately at 85*s.*; of Hayti 57 packages sold, including pale amber set and setting at 82*s.* 6*d.* to 87*s.* 6*d.*, and inferior dark and fermenting at 66*s.* to 70*s.* For good white Cuban set a bid of 80*s.* is to be made, and 36 barrels sold cheaply at from 65*s.* to 68*s.* for fermenting, and 75*s.* to 82*s.* 6*d.* for yellow set to palish.

IPECACUANHA was in fair demand at steady rates, and with stocks in moderate compass it would not be surprising, said one of the leading brokers, if importers were to raise their prices. The market opinion is that, at any rate, we shall not see reduced prices. This did not alter the fact that five bales of sea-damaged, part slightly, sold at cheap rates, from 8*s.* 9*d.* to 9*s.* 1*d.* being paid. Fair sound sold at from 9*s.* 10*d.* to 9*s.* 11*d.*, and for Cartagena a fair quantity offered at 9*s.* 9*d.* per lb.

KOLA was in fair demand at firm rates, the chief sale consisting of 123 bags comprising 93 bags of good sound slightly dark Java at 6¼*d.*, and inferior, part wormy, at 5*d.* Twenty-nine bags of good sound African quarters sold at 9*d.*, and small quarters, slightly wormy, at 8¼*d.* Three bags of St. Lucia sold at from 6*d.* to 6¼*d.* for fair, part whole, and for a further 39 bags from Lagos from 6*d.* to 9*d.* was wanted.

LEMONGRASS OIL.—Two cases of fair Seychelles sold at 3*d.* per oz.

ORRIS.—Three bags of fair Florentine sorts were limited at 67*s.* 6*d.* per cwt.

PEPPERMINT OIL.—In auction three cases of American (H.L.Y.) brand were bought in at 13*s.* 6*d.* per lb.

RHUBARB was extremely quiet, but prices are firm and unchanged. Best Shensi was held for 3*s.* 6*d.* per lb., and other qualities at from 1*s.* 9*d.* to 3*s.* Canton, although offered at favourable prices, did not attract buyers, and is comparatively cheap as compared with medium and bold flat High-dried, which sells privately at 1*s.* 8*d.* per lb. Medium and bold round horny High-dried was limited at from 11*d.* to 1*s.*

SARSAPARILLA.—No grey Jamaica from Lima offered, and privately there is nothing to be had. Of native Jamaica two bales offered, and sold at 2*s.* 3*d.* per lb. for dull yellow, being fully 3*d.* to 4*d.* higher; and of Mexican 25 bales offered, of which five had been sold privately, 1*s.* 5*d.* being wanted for the remainder.

SENNA.—The bulk of the Tinnevelly senna offered was of common quality, and, as it was too highly limited, buyers purchased but little, and then at rather easier prices. Fair boldish green sold at from 5½*d.* to 6½*d.*, and ordinary yellowish to middling 3*d.* to 4¼*d.* A lot of 68 bales good fair greenish Tinnevelly leaf was held for 5½*d.*, and a bid of 5*d.* is to be made. Twenty-four bales of *pods* sold at from 3¼*d.* to 3¾*d.* for ordinary dark, up to 5*d.* for good. Fifteen bales of slightly broken Sudan leaf sold at 6*d.* to 6½*d.* per lb.

SQUILL.—Four bags of inferior damaged sold at from 20*s.* to 25*s.* Privately 70*s.* is asked for fair white on the spot.

TAMARINDS.—Barbados of new crop sold at the firm price of 35*s.* per cwt. for 25 barrels of fair in bond.

TRAGACANTH.—Several parcels of Indian offered and 109 sold at from 90*s.* to 92*s.* 6*d.* for fair brown hoggy. Siftings were sold at 17*s.* 6*d.* per cwt. subject, and sea-damaged siftings at 15*s.* per cwt. A further 50 bags of brown karaya gum were bought in at 90*s.*

TURMERIC.—A lot of 135 bags fair Chinese was retired at 42*s.* 6*d.*, and for 20 bags fair Madras finger 55*s.* was wanted; 20 bags of fair split Cochin bulbs were limited at 37*s.* 6*d.*

VARIOUS DRUGS.—The following were among the bought-in parcels: About 5 cwt. *Lycopodium* at 5*s.* 6*d.* per lb., and a case of fair Russian *Cantharides* at 20*s.*; also 20 cases of good China *Star-anise* at 140*s.* per cwt. Three casks of J. D. Pritchard's *Oxalic acid* were bought in at 1*s.* 6*d.* per lb.; 36 bags of small to bold Vera Cruz *Jalap*, containing 7.3 per cent. jalapin, according to Parry's analysis, were bought in at 1*s.* per lb.

WAX, BEES', is steady, without much doing. Of Jamaica, 11 packages sold at the full rates of from 11*l.* 10*s.* to 11*l.* 15*s.* for dark brown to fair red and brown mixed. Two packages from St. Lucia sold at 9*l.* 10*s.*, and for 30 bags of Chilian, pile 1, 11*l.* 5*s.* was paid, pile 3 going at 11*l.* 10*s.* Four packages of Egyptian character sold at 11*l.* to 11*l.* 5*s.* for greyish and yellow, and 44 bags of Madagascar sold at from 9*l.* 18*s.* 9*d.* to 10*l.* 5*s.*, and for 25 bags of greyish Zanzibar 9*l.* 18*s.* 9*d.* subject was paid.

Aniline-dye Auction.

The public sale held on July 24 by Toplis & Harding at the London Commercial Sale Rooms, Mincing Lane, E.C., was poorly attended and buyers very few. About fifty lots found purchasers at prices much below those ruling last year, and taking into account the quality of the colours the prices paid were fully their value. Ten tons of E.I. gum lac (orange) realised 65*l.* per ton, and 10 tons of brown 31*l.* 10*s.* per ton; one lot of 2 tons of brown was taken out, the bid of 26*l.* per ton being considered too low. Three kegs of diamine sky-blue, guaranteed F.F. shade, realised 16*s.* to 17*s.* per lb.; two kegs carthamine (rhodamine), 12*s.* per lb.; one keg of basic magenta, 10*s.* per lb.; two kegs of pre-war standard rhodamine B, 31*s.* per lb.; two kegs pre-war standard benzo sky-blue, F.F. shade, 47*s.* 6*d.* per lb.; one keg pre-war standard direct navy-blue, 14*s.* per lb.; two kegs pre-war standard direct red 10 B., 10*s.* to 10*s.* 6*d.* per lb., these lots being amongst the higher-priced colours; about forty lots were bought in.

Arrivals of Chemicals, Drugs, etc.

THE following are among the arrivals at the ports of London and Liverpool during the period July 17 to 20 inclusive:

To London.

Acetic acid, 205 brls. 99 cbys.
Alcohol, wood, 11,660 gals.
Angelica, 8 bls.
Anisaldehyde, 4 cs.
Argol, 506 bgs.
Arsenic, 147 cwt.
Balsams, 5 cs.
Benzonaphthol, 2 cs.
Butter-colour, 64 cks.
Calcium acetate, 324 bgs.
Calcium cit., 92 cks.
Calcium lact., 2 cs.
Calumba, 344 bgs.
Cannabis ind., 10 cs.
Carbon black, 100 cs.
Carbon tetrachlor., 16 dms.
Cardamoms, 2 cs.
Casein, 5,400*l.*
Chamomiles, 21 bls.
Charcoal, wood, 45*l.*
Chemical products, unrated, 3 cs. 13 pcls.
Chloral hyd., 2 dms.
Cinchona, 21 bls. 59 pkgs.
Condurango, 10 bgs.
Creosote carb., 1 cs.
Dental goods, 4,070*l.*
Drugs, unrated, 81*l.*; herbs, dried, 83 bls.
Dyestuffs, unrated, 10 kgs. 3 cs. 2 cks.; myrabolans, 10,760 pockets; red dyewoods, 20 tons; tanners' bark, 26 tons
Euphorbia pil., 7 bls.
Formal syrup, 42 cs.
Formic acid, 220 dmjns.
Gelatin, 1,506*l.*
Gentian, 35 bls.
Gentian powder, 20 bgs.
Gums (cwt.): acacia, 130; chicle, 54; damar, 32; kauri, 3,781; olibanum, 678; tragacanth, 637
Heliotropin, 4 cs.
Hydroquinone, 9 kgs.
Juniper-berr., 340 bgs.
Lactic acid, 2 cs.
Laurel-leaves, 40 bls.
Lime-flowers, 37 bls.
Lithopone, 1,132 cks. 700 brls.
Menthol cones, 4 cs.
Methyl salicylate, 23 cs.
Mineral jelly, 25 brls.
Nuts and kernels (cwt.): arachis, 68,988; copra, 3,460; unrated, 29
Nux vomica, 400 bgs.
Oils, essential, natural, 490 cs. 6 × ½ cs. 10 dms.; anise oil, star, 10 cs.; sandalwood, 11 cs.; *synthetic* oils, 17 dms. 6 cs.
Oils, fixed: arachis, 24 cks.; castor, 1,083 cks.; coconut, 45 pps. 9 pns. 2 hds.; croton, 1 cs.; olive, unref., 2,400 gals.; ref., 8 tuns 156 gals.; rape, 1,000 cs.; wood, 425*l.*
Oxalic acid, 9 cks.
Paraldehyde, 8 cs.
Paraphenylenediamine, 10 kgs.
Peptone, 2 cs.
Perfumery, unrated, 1,236*l.*
Phenacetin, 6 cs.
Phenazone, 11 cs.
Quinine, 82,000 oz.
Rhubarb, 10 cs.
Rosin, 290 cks. 27 brls.
Safrol, 1 dm.
Salol, 3 kgs.
Saltpetre, 12,769 cwt.
Seeds (bags): annatto, 317; canary, 1,270; coriander, 1,572; cotton, 2,051; dill-seed, 364, 205 *cwt.*; fennel, 50; fenugreek, 10; lin, 2,020; mustard, 230; sesame, 1,400; sunflower, 456
Senna, 1,154 bls.
Shellac, 5 cwt.
Soda butyrate, 9 cwt.
Soda salicyl., 7 cwt.
Sponge, 61 bls.
Starches (cwt.): maize, 2,660; potato-flour, 2,120
Stramonium, 1 bl.
Talc, 81*l.*
Tallow, unref., 25,090 cwt.
Thymol, 5 cs.
Turmeric, 960 bgs. 36 cks.
Ultramarine, 6 brls. 4 cks.
Vanilla, 20 cs.
Vanillin, 4 cs.
Wax, undescribed, 60 bgs. 158 cs.
Wax, paraffin, 1,247 cwt.
Witch-hazel leaves, 8 bls.

Cancelled entries.—June 5, 9,700 cwt. paraffin wax; June 16, 41 cs. essential oils.

To Liverpool

Ammon. nit., 327 cks.
Argol, 10 bgs.
Borax, 1,071 bgs.
Butter-colour, 17 cks.
Calcium borate, 8,115 bgs.
Dental goods, 16*l.*
Drugs, unrated, 25 cs. 10 pkgs. 3 tons 7 bls.
Dyestuffs, unrated 12 pkgs. 7 cks.; cutch, 200 bxs.; lactic acid, 140 brls.; logwood ext., 758 cks.; logwood liquor, 20 cks.; quebracho ext., 518 bgs.; tanniug ext., 39,500 bgs.
Formaldehyde, 56 brls.
Gums (bgs.): acacia, 607
Iodine, 72 brls.
Liquorice-juice, 54 cs.
Lithopone, 60 cks.
Nuts and kernels: arachis, 17,126 bgs.; copra, 866 bgs.; palm-kernels 750 *tons* 57,256 bgs.; shea, 11 bgs.
Oils, essential, unrated, 20 bxs.
Oils, fixed: arachis, 2,815 cs.; palm, 3,599 cks. 4 butts; whale, 4,457 tons
Petroleum jelly, 65 brls.
Potash carb., 10 brls.
Potash, undescribed, 38 cwt.
Soda nitrate, 74,782 bgs.
Starches, 19,280 bgs.
Tallow, 200 cks.
Vaseline, 748 cs.
Wax, bees' 4 bls.
Zinc oxide, 2,100 brls.

THE POTASH PRODUCTS CO., Hoffland, Nebraska, is shipping 1,500 tons per month of crude potash salts, obtained from the sand-hill lakes.

THE IMPORTS of chemicals and pharmaceutical products into Argentina during 1916 amounted in value to 2,499,000*l.*, against 2,566,000*l.* in 1915.

AMERICAN QUICKSILVER.—The production of quicksilver in California in 1916 amounted to 21,400 flasks of 75 lb. each, which were sold by the mine-owners for $2,000,900 (about 411,300*l.*).

CHILIAN SALTPETRE.—The trade in Chilian saltpetre in 1916 has beaten all previous records. The highest previous production—that of 1913—was exceeded last year by 120,000 tons, the total of saltpetre mined rising to 2,878,000 tons. Of this, 1,200,000 tons went to the United States, leaving more than 1,500,000 tons for Europe and other countries.

Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Ropiness in Bread.

SIR,—The experience of your correspondent "Cactus" is not the experience of the trade. The form of "bread-rot" known as "rope" has always been known to bakers, but it is perfectly true that its incidence has been a diminishing one for many years past—ever since, in fact, modern milling methods have been established. Before the recent alterations in mixtures brown and whole-meal breads were being made upon such a small scale that the danger was at a minimum. But even then I know that it frequently occurred in the coarser breads, and occasionally in the white bread if all conditions were suitable. Your correspondent seems to be prepared to admit that the disease is due to a bacillus. If it is only a larger percentage of protein or a form of protein peculiar to leguminous cereals that permits the development of rope, how is it that rope was known long before these admixed cereals were used? The truth is that this explanation does not conform with the known facts.—Yours faithfully,

E. J. WATKINS, F.C.S.
(Author of "Ropiness in Bread").

The Chemist's Title.

SIR,—I have read with great interest your excellent summing-up of the case of the chemist's title, on which you invito discussion. In order to secure the friendly offices of professional scientific men, we ought to be prepared to give up to them the title "chemist," with the sole exception of "pharmaceutical chemist" as the title for those who pass the converted "Major" of which you speak, and which would fit them to take their places as analysts or professional chemists. "Dispensing chemist" is an anomaly, inasmuch as it means one who dispenses chemicals; a much better title would be "dispensing druggist"—that is, one who dispenses drugs, whether of vegetable, mineral, or animal origin—so that with dispensing druggist, pharmacist, and apothecary there would be no lack of suitable titles. It seems to me the Apothecaries' Society must do one of two things if it is to induce the pharmacists of this country, and therefore the Pharmaceutical Society, to admit its diplomates to full rank as pharmacists, even on condition of their passing a Modified examination after three years' dispensing experience: either it must cease to examine after a certain date or it must exact the passing of a Preliminary in general knowledge. It is this which more than anything else blocks the way, as it opens a back door into pharmacy. As it is, there is no reason why those of its diplomates who have passed such a Preliminary should not enter for the Minor examination after three years' experience in dispensing, and, as a matter of fact, many of them have done. It seems to resolve itself into this: that in return for certain concessions which you specify we are to be prepared to admit apothecaries' assistants with three years' experience in dispensing to a Modified examination and register them, but after a definite date a Preliminary examination in general knowledge and the full pharmacist's qualification would be exacted.—Yours, etc.,

WHERE THERE'S A WILL THERE'S A WAY.

Mysore Sandalwood Oil.

SIR,—With reference to the letter of Evans Sons Lescher & Webb. Ltd., in the *C. & D.*, July 14, p. 51, may I be permitted to bring to the notice of your readers that the distillation of sandalwood oil is an industry that, in my opinion, rightly belongs to the State of Mysore, and it does not seem to be a correct view to take to say that the action of the Government of Mysore "is a needless interference with a long-established and ever-increasing home industry." The wonder is the Government of Mysore did not take the same steps earlier. With regard to German competition, it is worth while noticing that Schimmel & Co. alone had in 1912 eighteen stills of 8,000 litres capacity working uninterruptedly throughout the year. If the Germans were not trying to monopolise the sandalwood-oil trade, they had a very big share in it. Yours faithfully,

S. G. SASTRY, B.A. (Madras), M.Sc. (London), F.C.S.
Nottingham.

Dispensing Difficulties and Notes.

A Salicylic-acid Lotion.

SIR,—I shall be glad to know the best way to make up the following lotion:

Ac. salicylic.	gr. c.
S.V.R.	ʒij.
Glycerin.	ʒij.
Aq. ad	℥iv.

Ft. lotio.

I dissolved the acid in the spirit, then added the glycerin and water, but when the water was added the acid all came out. The cork of the bottle was blown out twice in less than a minute.—Yours truly, A. C. (76/3.)

[Mix the rectified spirit, water, and glycerin; place the salicylic acid in a mortar and powder it finely, then add to it gradually, with trituration, the mixed liquids. A clear solution is thus obtained. The salicylic acid thrown out of solution in the lotion prepared by you would probably dissolve up in time, but when precipitated in this fashion it is often somewhat refractory to re-solution. The expulsion of the cork is not of importance, being caused merely by the expansion of the air in the bottle owing to the heat generated by the admixture of the water and glycerin with the spirit.]

Paraffin Emulsion.

SIR,—Would you please advise as to the best method of compounding the following prescription?—

Paraffin. liq.	ʒij.
Ol. amygdal.	♏xx.
Ol. ricini	♏xx.
Ol. limon.	♏¼
Salol	gr. x.
Sacc. lact.	gr. v.
P. acaciæ	q.s. gr. 50
Aq. ad	℥ss.

Mist. ft. emul. Mitte tales doses xx.

I rubbed the powders together in a mortar, then added the oils, and transferred to the bottle. The water was next added in small quantities, agitating all the time. After a little the gum and water united to form an insoluble mass, and the whole thing had to be discarded. The prescription had been made up previously in London as a nice creamy emulsion. Yours faithfully,

R. M. C. (80/4.)

[Place the salol, sugar of milk, and gum acacia in a mortar and add the water, triturating till a mucilage is formed; then incorporate gradually, with steady stirring, the oils previously mixed together. In this way a whitish emulsion is formed which quickly separates. It is not clear to us whether the quantity of gum noted after the q.s. is specified in the prescription, or is your suggestion: the quantity is really in excess of requirement. In any case, a satisfactory, nice-looking, non-separating emulsion cannot be compounded by the use of acacia only as an emulsifiant. To compound a white creamy emulsion use, in preparing an ounce, 65 gr. of gum acacia and 4 or 5 gr. of powdered tragacanth. Triturate these with the salol and sugar of milk, and make a mucilage by addition of the water, as directed above, then incorporate the oils. It is well to use clean white pieces of gum acacia and powder them: commercial powdered gum acacia is nearly always sour and dusty. The pieces are, moreover, much more economical.]

Legal Queries.

Most difficulties in trade law are explained in the legal section of "The Chemist and Druggist Diary," 1917, beginning on page 353.

J. C. (76/22).—The point we tried to convey was that a trade-mark applied exclusively to an ointment might be sufficient to render it liable to medicine stamp-duty.

N. M. (83/1).—Is a shopkeeper required to provide seating accommodation for his female assistants? [The Shops Act, 1912, provides that in all rooms of a shop where female shop-assistants are employed in the serving of customers the occupier of the shop shall provide seats, in a suitable place, in the proportion of not less than one seat to every three female shop-assistants in each room.]

R. W. B. (73/69).—COCAINE ORDER.—A medical man who dispenses cocaine must keep a record of prescriptions dispensed which contain cocaine, in the cocaine register, which is required to be open to inspection. It is the seller who keeps the record of cocaine supplied. In the case of a dentist who uses cocaine injections he cannot be said to sell the injection: he is in the position of the user.

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

W. T. (54/72).—BLACK CELLULOID VARNISH.—The basis of the varnish is:

Celluloid		5 parts
Amyl acetate,		
Acetone,		
Ether	of each	16 parts

Dissolve.

The black colour is managed by adding nigrosine and chrysoidine, but the result is never a perfect black—nigrosine alone gives a deep blue and chrysoidine an orange brown, but the mixture is a fair black.

V. V. (Milan) (53/33).—SPONGE-POWDER.—The following is good:

Dried sodium carbonate ...	15 oz.
Sodium sulphite	1 oz.
Lavender oil	10m.
Verbena oil	2m.

Mix. A teaspoonful of this powder is dissolved in a quart of warm water and the sponge soaked in the liquid for half an hour, squeezing occasionally. Then rinse in warm water.

P. A. M. (Fayoum) (56/30).—(1) HEALTH-SALT.—The following is a representative recipe from "Pharmaceutical Formulas":

Sodium bicarbonate	1 lb.
Tartaric acid	1 lb.
Cream of tartar	1 lb.
Magnesium sulphate (dried) ...	½ lb.
Sugar	3 lb.

Mix.

(2) THROAT-TABLETS.—The product of the following recipe is intended to be compressed into 10-gr. tablets:

Menthol	140 gr.
Oil of anise	140m.
Benzoic acid	583 gr.
Eucalyptol	½ oz.
Cane sugar	9 lb. 14 oz.

J. McM. (73/49).—ROSE POT-POURRI.—Fill a 2-gal. jar with alternate layers of rose-leaves, orange-blossoms, and lavender-flowers; sprinkle with salt, and then mix 4 oz. of the following powder with the contents of the jar:

Orris-root		℥xvj.
Benzoin		℥v.
Coriander		℥iv.
Cinnamon,		
Cloves,		
Pimento	aa.	ʒj.
Tonquin beans,		
Ess. bouquet	aa.	ʒss.

Mix.

Harrow (47/24).—AQUEOUS PERFUMES.—The cloudiness in a mixture of essential oil, spirit, and water is due to too large a proportion of water being present, this throwing the essential oil out of solution. You may either reduce the quantity of water or increase the spirit, or the perfume may be filtered through a paper filter on which has been placed some light carbonate of magnesia. The magnesia saponifies the excess of oil, and it is either passed through the filter in solution or retained on the filter-paper.

Alpha (52/12).—(1) STEEL TOOLS that have become soft through use are hardened by heating to redness (about 1,500° F.) and plunging in cold water. The steel is then polished with emery, and tempered by heating gradually to a temperature varying from 426° F. for lancets and tools requiring the keenest cutting-edge, to 600° F. for hand-saws etc., and again cooled. The heat required for tempering is judged by the colour of the film of oxide which forms on the surface, the tint varying from pale yellow to brown, purple, blue, and so on. Prussiate of potash is not used for tempering steel, but for case-hardening cast metal. The casting is heated in powdered prussiate of potash in a closed box to prevent oxidation, and some chemical change, such as the hardening of the carbon on the surface of the casting, takes place. (2) FLOOR-POLISH.—We gave two representative formulæ for the liquid floor-polishes now in vogue in the *C. & D.*, August 21, 1915, p. 294.

E. H. (40/32).—SOFTENING ANIMAL SKINS.—Ammonium chloride, either in deliquesced condition or saturated solution, is applied to the skin side of the pelt. When the requisite softness has been obtained the skin is dried with bran or sawdust, and curried to impart permanence to the suppleness.

G. W. (61/5).—MANUFACTURE OF PERRY.—The fruit is ground to a pulp or uniform mass between the rollers of a mill. The pulp—pomace, as it is called—is exposed to the air for a period varying from six to thirty hours, during which time it absorbs oxygen and loses water, the sp. gr. of the must rising from 1.064 to 1.078. The pomace is then put into a hydraulic press between hair cloths, and the expressed juice run into vats to clear. Very fine perry is made from the must expressed so soon as the pomace is prepared, the residue being exposed to the air for twenty-four hours, pressed again, and the two liquids mixed together. The must is next exposed in large vats in cool cellars, where it undergoes spontaneous fermentation at a temperature of about 60° F. The fermentation proceeds somewhat rapidly, and, when completed, dregs and scum are removed by racking and fermentation. Catechu-containing substances are sometimes added to precipitate albuminous and gummy matters. A pint of milk is then added to every 9 gals. for "fining," and 1 oz. of salicylic acid to every 96 gals. as a preservative. The perry is then put into bottles or barrels and transferred to cool, dry, and airy cellars to undergo maturation.

Osyl (32/3).—The FOOT-CREAM is mainly animal tallow. It has been softened slightly by the addition of lard or lanoline; the latter would be the better for the purpose in view.

Student (67/17).—CYLINDRICAL LENS.—The best method of locating the axis of a cylinder is by the Maddox axis-finder, or by a spherometer. The methods are described in "The Chemist-Optician," a second-hand copy of which you could obtain by advertising in the Coloured Supplement.

A. B. (69/14).—You do not say for what the varnish is needed. Some varnishes are required to dry slowly.

C. S. (42/41).—The NON-POISONOUS STRAW-HAT CLEANER is simply cream of tartar.

M. J. F. (74/70).—LEATHER-DYEING.—There is always a difficulty in colouring evenly leather which has been finished. If the surface grease were first removed by a benzine-bath, the difficulties would be fewer. The ordinary process consists of brushing the grained side successively with (*a*) a mordant, such as bichromato of potash; (*b*) a dye liquor—*e.g.*, logwood or Brazil wood—and (*c*) a mineral salt, such as one of the vitriols—iron sulphate, for example, if a black is required. A useful recipe which you might try is the following: Make three solutions—

(A) Orange shellac 200 oz., spirit 1,000 oz.
(B) White Castile soap 25 oz., spirit 375 oz., glycerin 40 oz.
(C) Aniline dye 5 oz., spirit 125 oz.

(B) is mixed while hot with (A), and (C) is added. The mixture is well shaken and set aside for a few weeks before use, occasionally agitating the mixture. It is applied to the leather by means of a sponge.

Oleo (74/37).—EGG-YOLK containing 2 per cent. of boric acid would not be contaminated by storing in tins.

C. C. H. C. (75/61).—(1) BOOKS ON BACTERIOLOGY.—See *C. & D.*, April 21, p. 52. (2) There are good general statements on the distribution of cancer in Quain's "Dictionary of Medicine" and similar works, but the subject is a large one and the published papers are very numerous.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," July 15, 1867.

A Trap to Catch Sunbeams.

In the optical room of the Conservatoire des Arts et Métiers, at Paris, near a window, is an unpretending frame, containing half a dozen test-tubes filled with powders, bearing a written descriptive label by M. Becquerel. Should any one pause before this object, he need not be surprised if an attendant politely steps forward and closes the window-shutter, for darkness is required to reveal the beauties of the apparatus. The powders then exhibit in a most striking manner the phenomenon of phosphorescence, each shining with a different coloured light. A similar series of powders has been arranged for sale in a neat little box, and has been brought under our notice by Messrs. Harvey & Reynolds, of Leeds.

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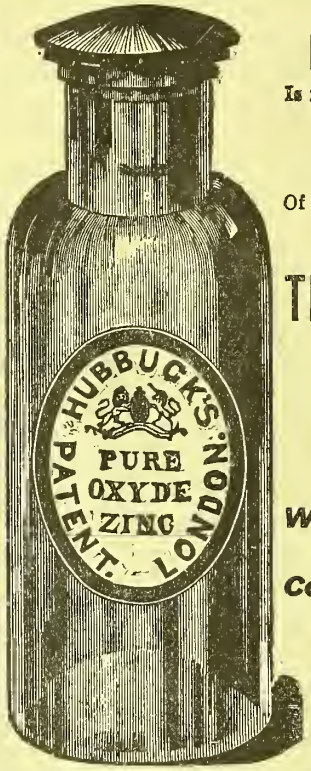

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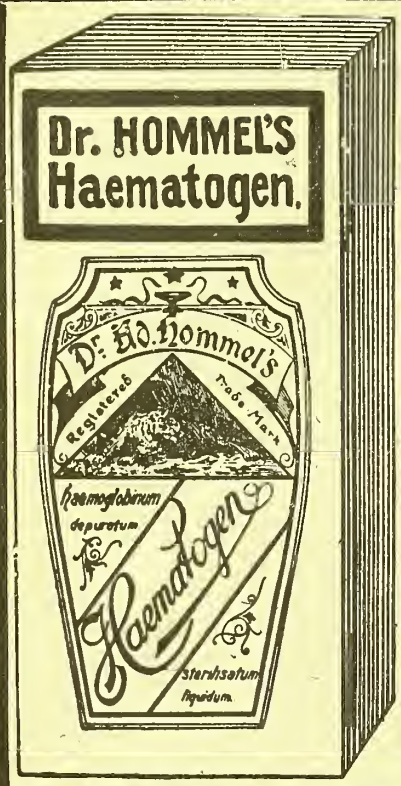

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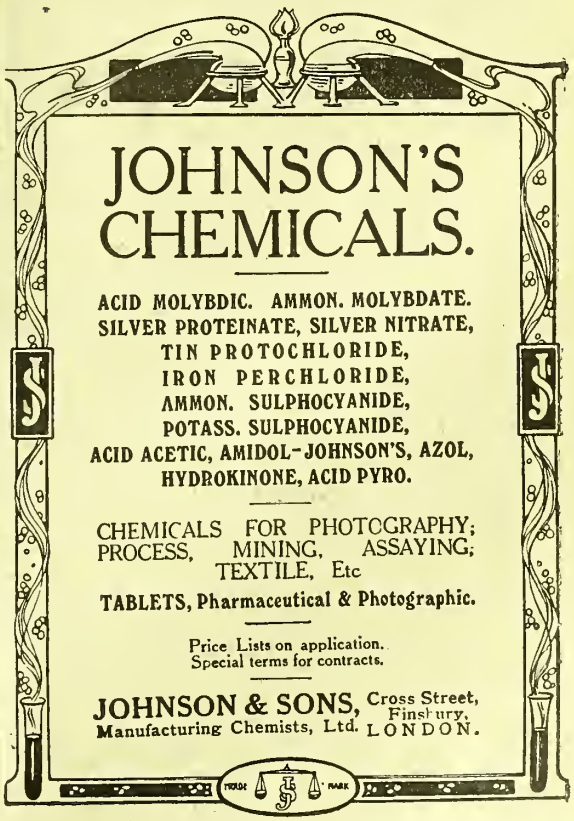

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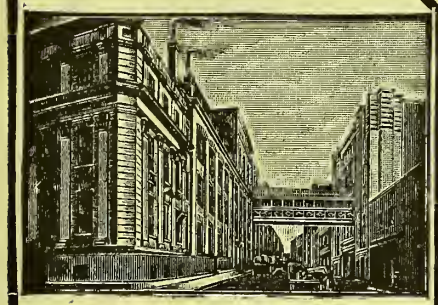

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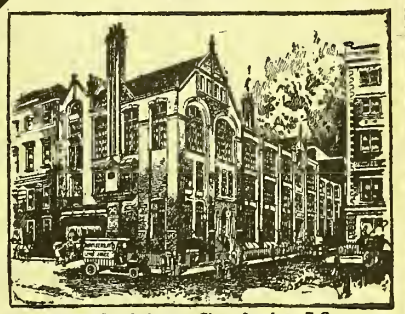

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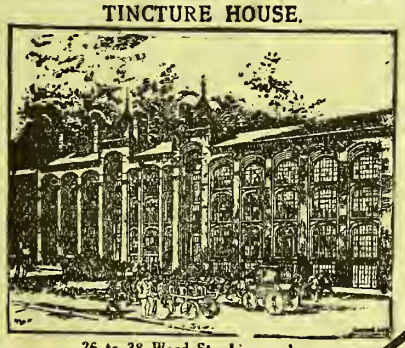

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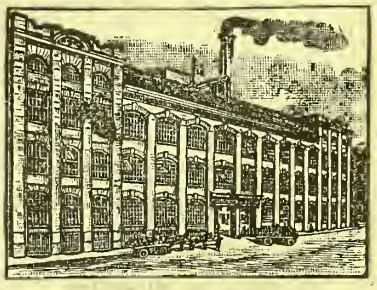

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Atropinæ Sulph., P.B., 1 oz. @ 125/- oz.
Auri Chlor., 6 doz. 15 gr. tubes @ 27/3 doz.; 1 doz. 15 gr. tubes @ 27/6 doz.

*Bals. Copaibæ, pure, 44 lbs. @ 5/6 lb.; 9 lbs. @ 5/9 lb.; 1 lb. @ 5/11.
" Peruv., P.B., 1 lb. @ 19/- lb.
" Sulphur, 7 lbs. @ 1/6 lb.
" Tolut. B.P., 50 lbs. @ 2/3 lb.; 1 lb. @ 2/8 lb.
Bismuth, P.B., Carb., 3 lbs. @ 13/6 lb.; 1 lb. @ 14/- lb.; subnit., 3 lbs. @ 12/6 lb.; 1 lb. @ 13/- lb.
" Salicyl., 1 lb. @ 18/6 lb.
Boracic Mixture, 1 cwt. @ 95/- cwt.
Borax, 1 cwt. @ 44/6; powder 1/- extra.
Butyl-Chloral Hydras., P.B., 1 lb. @ lb.

Caffeine, P.B., 1 lb. @ 48/- lb.
Caffeinæ Cit., B.P., 1 lb. @ 32/- lb.
Calamina, powder, fine pink, 5 cwt. @ 25/- cwt.; 1 cwt. @ 28/- cwt.; 7 lbs. @ 4d. lb.
Calamine, B.P., 1885, 7 lbs. @ 1/3 lb.
Calcii Carb. Præcip., 5 cwt. @ 22/6 cwt.; 1 cwt. @ 26/- cwt.; 28 lbs. @ 30/- cwt.
" Hydras., P.B., 1 cwt. @ 32/- cwt.; 7 lbs. @ 5½d. lb.
" Hypophosph. Pur., P.B., 1 lb. @ 4/- lb.
" Iodid., 1 lb. @ 21/6 lb.
Camphor, English Flowers, "not artificial," 5 lbs. @ 3/9 lb.; ½ oz. or ¼ oz. 7 lbs. @ 4/3 lb.; good white, about 95% as imported, 140 lbs. @ 2/4 lb.; 28 lbs. @ 2/6 lb.
Capsicine, soluble, 1 lb. @ 9/6 lb.
Carbo Animalis or Ligni, powder or lump, 1 cwt. @ 30/- cwt.; 28 lbs. @ 3½d. lb.
Cardamoms, 28 lbs. @ 2/6 lb.; 7 lbs. @ 3/- lb.
Carmine, Finest, 1 lb. @ 35/- lb.; No. 2, 1 lb. @ lb.
Cera Alba, B.P., White Moons, 28 lbs. @ 2/8 lb.; 4 lbs. @ 2/9 lb.; Flav. 1 lb. Blocks, 28 lbs. @ 2/4 lb.; 4 lbs. @ 2/5 lb.; 1 oz., ¼ oz. tabs., 7 lbs. @ 2/6 lb.
Cerii Oxalas, 1 lb. @ 6/6 lb.
Cetaceum, No. 1, fine white, 64 lbs. @ 11d. lb.; 7 lbs. @ 1/2 lb.; powder, 7 lbs. @ 1/6 lb.
Chloral Hydras Cryst., B.P., 7 lbs. @ 11/3 lb.; 1 lb. @ 12/- lb.
Chlorodyne, 5 lbs. @ 3/- lb.
*Chloroform, pure, B.P., 12 8-lbs. @ 3/9 lb.; 8 lbs. @ 3/11 lb.; 6 1-lb. bots. @ 4/3 lb.
Cocaine Hydrochlor., 1 oz. @ 31/6.
Codeina, 1 oz. @ 24/6 oz.; Phosph., 1 oz. @ 21/- oz.; Hydrochlor. or Sulph., 1 oz. @ 22/- oz.
Colocynth, Apple, English ground, 1 cwt. @ 1/4 lb.; 28 lbs. @ 1/5 lb.; 7 lbs. @ 1/7 lb.
Composition Powder (Coffin's), 1 cwt. @ 70/- cwt.; 7 lbs. @ 9d. lb.
Conf. Sennæ, P.B., 14 lbs. @ 1/4 lb.; 7 lbs. @ 1/5 lb.
Cort. Aurant. Exot. Shreds, 7 lbs. @ 2/4 lb.
" Cinchon. Rub. (Quill), 7 lbs. @ 1/7 lb.
" Ulmi Fulvæ, Pulv., 1 cwt. @ 11d. lb.; 7 lbs. @ 1/1 lb.
Cream of Tartar, 98% powder, 1 cwt. @ cwt.; 7 lbs. @ 2/5 lb.

Creasote, Beechwood, P.B., 7 lbs. @ 16/- lb.
Creta c. Camph., 7 lbs. @ 11d. lb.
" Gall. Pulv., in sacks, 10 cwt. @ 12/- cwt.; 1 cwt. @ 13/- cwt.; 14 lbs. @ 1½d. lb.
" Præparata, 7 lbs. in box @ 1/3 each.
Cubebæ, English Ground, 28 lbs. @ 3/8 lb.; 7 lbs. @ 3/10 lb.

*Dec. Aloes Co. Conc. 1–2, 6 lbs. @ 2/1 lb.; Sinecroco, 6 lbs. @ 1/4 lb.
* " Cinchonæ (Rubræ) Conc., 1–7, 6 lbs. @ 2/3 lb.
* " Senegæ Conc., 6 lbs. @ 2/11 lb.

Emp. Spread, 12 yards × 16 ins. adhesive, 6/-; Bellad. B.P.C., Green @ 28/6; Cerati Saponis @ 12/4; Picis Co. @ 12/4; Plumbi @ 10/-; Resinæ @ 7/6; Roborans @ 11/6; Saponis, B.P., @ 10/-
Emp. Picis, P.B., 7 lbs. @ 1/3 lb.
" Plumbi, P.B., 7 lbs. @ 1/3 lb.
" Resinæ, P.B., 7 lbs. @ 1/3 lb.
" Roborans, 7 lbs. @ 1/3 lb.
Emulsio Ol. Morrhuæ, 5 lbs. @ 1/6 lb.
Eserine Sulph., in 15-grain tubes, 8/6 each.
Ess. Bergam. (Oil), 12 lbs. @ 21/- lb.; 1 lb. @ 22/- lb.; not guaranteed absolutely pure.
Ess. Limonis (oil) original coppers, 12 lbs. @ 4/3 lb.; 6 1-lb. bots. @ 4/9 lb.; not guaranteed absolutely pure.
*Ess. Moschi (not artificial), 5 lbs. @ 14/6 lb.; 1 lb. @ 15/- lb.
*Ess. Pear (artificial), Jargonelle, 5 lbs. @ 3/9 lb.; Bergamot, 4/3 lb.
*Ess. Pineapple, 5 lbs. @ 4/- lb.
* " Raspberry, 5 lbs. @ 2/8 lb.; 1 lb. @ 8/- lb.
* " Vanilla Beans, 5 lbs. @ 5/- lb.; 1 lb. @ 5/3 lb.
*Ext. Belladonnæ Liq., B.P., 5 lbs. @ 19/- lb.; 1 lb. @ 19/6 lb.; solid, 7 lbs. @ 11/- lb.
Ext. Cannab. Ind., Alc., B.P., 1 lb. @ 66/- lb.
Ext. Cascara Sag. Liq., B.P., 1 cwt. @ 2/3 lb.; 10 lbs. @ 2/5 lb.
*Ext. Ergot. Liq. P.B., 5 lbs. @ 4/8 lb.; 1 lb. @ 5/1 lb.; Solid, P.B., 4 lbs. @ 20/- lb.; 1 lb. @ 21/- lb.
Ext. Gent., P.B., solid, 1 cwt. @ 2/5 lb.; 7 lbs. @ 2/8 lb.
*Ext. Glycyrrh. Liq., B.P., 6 lbs. @ 3/1 lb.
*Ext. Hamamelis Liq., P.B., 5 lbs. @ 4/1 lb.
Ext. Hyoscyam., Solid, B.P., 3 lbs. @ 12/6 lb.; 1 lb. @ 13/- lb.
*Ext. Ipecac. Liq., P.B., 5 lbs. @ 18/6 lb.; 1 lb. @ 19/- lb.
Ext. Malti c. Ol. Jecoris, 10 lbs. @ 1/- lb.
*Ext. Nucis Vom. Liq., P.B., 5 lbs. @ 4/8 lb.; 1 lb. @ 4/10 lb.; solid, 5 lbs. @ 4/6 lb.; 1 lb. @ 5/- lb.
Ext. Opii Solid, P.B., 1 lb. @ 90/- lb.
*Ext. Opii Liq., B.P., 5 lbs. @ 6/6 lb.; 1 lb. @ 7/- lb.
Ext. Quassiæ, Solid, 7 lbs. @ 8/- lb.; 1 lb. @ 8/6 lb.
Ext. Sarsæ Co. Solid, 7 lbs. @ 6/6 lb.; 1 lb. @ 7/- lb.

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Ferri et Quininæ Cit., P.B., 100 ozs. @ 11½d. oz.; 25 ozs. @ 1/- oz.
Ferri Sulph., pure cryst., 1 cwt. @ 7 lbs. @ 3½d. lb.
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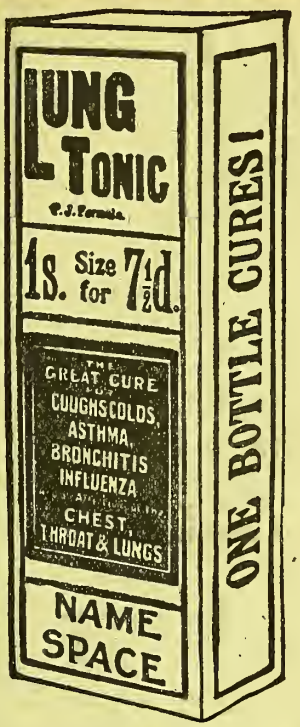

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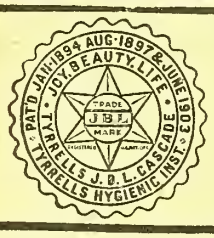

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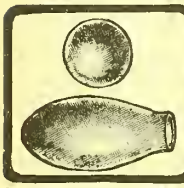

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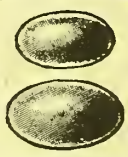

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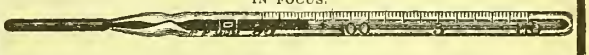

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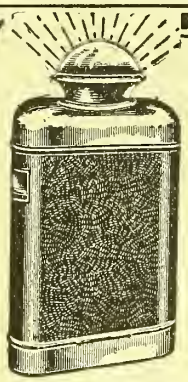

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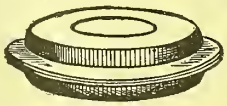

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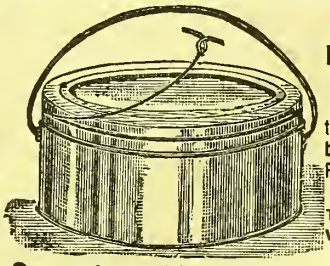

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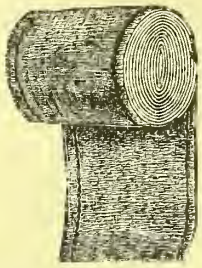

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Leg Bandage, 3 yards long, fitted with tapes, ready for use, each **2/-**.

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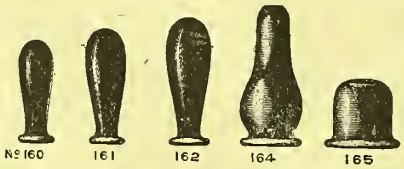

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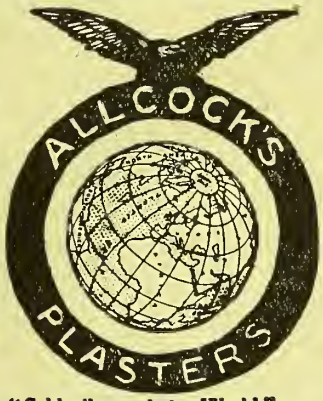

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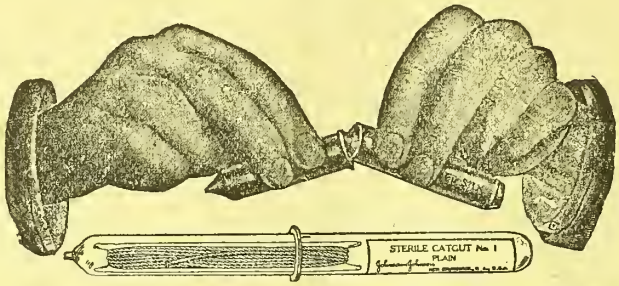

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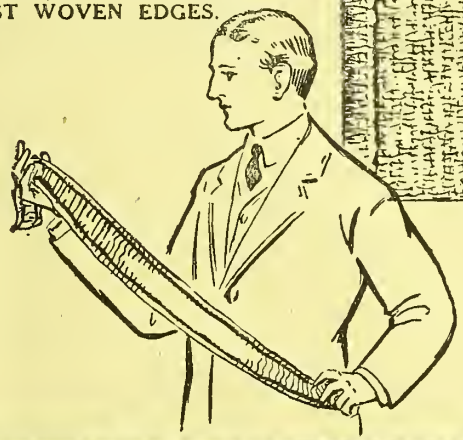

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Comprising Bandage, Cotton Wool, Boric Lint, Iodine Ampoules, Styptic Pad, Adhesive Plaster, Court Plaster, Boric Ointment, Zinc Ointment, Safety Pins, Camel Hair Brush.

No. 11.—Sandringham Compressed First-Aid Outfit. Size of case, 6 × 3¾ × 2⅜ in. each **5/9**
Comprising Assorted Bandages, Triangular Bandage, Absorbent Wool, Lint, Gauze, Boric Gauze, Protective, Finger Splints, Tweezers, Sal Volatile, Plaster, Boric Ointment, C.H. Brushes, Safety Pin, Sponge.

No. 12.—Sandringham Compressed Outfit. Size of case, 5¾ × 5 × 1¾ in. ... ... each **6/3**
Comprising Assorted Bandages, Boric Wool, Boric Lint, Abs. Wool, Abs. Lint, Boric Ointment, Plaster, Protective, Jaconet, Styptic Pads, Court Plaster, Iodine Ampoules, Carron Oil, Sal Volatile, Sponge, Safety Pin, Scissors, Tweezers, C.H. Brush.

No. 13.—Sandringham Compressed Outfit. Size of case, 7¼ × 4¼ × 1¾ in. ... ... each **10/-**
Comprising Assorted Bandages, Boric Lint, Boric Wool, Abs. Lint, Abs. Wool, Abs. Gauze, Boric Gauze, Plaster, Court Plaster, Boric Ointment, Zinc Ointment, Iodine Ampoules, Sal Volatile, Friars Balsam, Scissors, Tweezers, Finger Splint, Jaconet, Safety Pins, C.H. Brush, Needles and Thread, Sponge.

No. 14.—Sandringham Compressed Outfit. Size of case, 6¾ × 5¾ × 2 in. ... ... each **11/6**
Comprising Assorted Bandages, Triangular Bandage, Abs. Gauze, Abs. Wool, Abs. Lint, Boric Wool, Boric Lint, Sal Volatile, Zinc Ointment, Boric Ointment, Plaster, Court Plaster, Iodine Ampoules, Scissors, Tweezers, Finger Splint, Finger Stall, Jaconet, Safety Pins, Needles and Thread, C.H. Brush, Sponges, Drinking Cup.

No. 15.—Sandringham Compressed Outfit. Size of case, 8¾ × 4¾ × 2½ in. ... ... each **13/-**
Comprising Assorted Bandages, Triangular Bandage, Cyanide Gauze, Boric Wool, Boric Lint, Abs. Wool, Abs. Lint, Drinking Cup, Sponge, Adhesive Plaster, Iodine Ampoules, Boric Ointment, Carron Oil, Friars Balsam, Sal Volatile, Straps & Buckles, Splints, Tweezers, Scissors, Jaconet, Court Plaster, C.H. Brushes, Safety Pins, Needles & Thread.

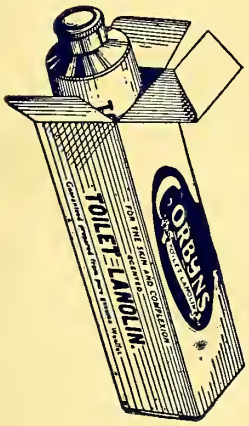
No. 16.—Sandringham Compressed Outfit. Size of case, 8 × 6 × 2¼ in. ... ... each **16/6**
Comprising Assorted Bandages, Triangular Bandages, Cyanide Gauze, Boric Wool, Boric Lint, Plain Lint, Plain Wool, Splints, Adhesive, Court Plaster, Drinking Cup, Sponge, Safety Pins, Jaconet, Iodine Ampoules, Scissors, Tweezers, C.H. Pencils, Sal Volatile, Friars Balsam, Carron Oil.

No. 18.—Emergency Outfit, to hang on wall. Size of case, 15 × 12¼ × 3¼ in., each **45/-**
Comprising Set of Splints, 3 doz. assd. Comp. Bandages, Assortment Compressed 2 oz. Wool, Lint and Boric Lint, Abs. Gauze, Adhesive, Drinking Cup, Sponge, 1 doz. Iodine Ampoules, Protective, 8 Triangular Bandages, Scissors, Tweezers, Safety Pins, C.H. Brushes, Sal Volatile, Carbolic Lotion, Picric Solution, First-Aid Book.

MAY, ROBERTS & CO., LTD. 7 to 13 Clerkenwell Road, LONDON, E.C. 1.

AND 16 WESTMORELAND STREET, DUBLIN.

Corbyn's



TOILET LANOLIN

Scented or Unscented.

1 oz. tubes ... **4/6** per dozen.
2 oz. ,, ... **7/-** ,,

Cartons, **6d.** and **9d.** per doz. extra.
Or in
Opal Octagon Pots with Aluminium Screw Caps, 1 oz., **4/3** per dozen.

(*Own Name and Address on 3 dozen.*)

LANOLIN VANISHING CREAM.

In Opal Octagon Pots
with
Aluminium Screw Caps.

1 oz.

7/- per dozen.

(*Own Name and Address on 3 dozen.*)

COMPOUND SYRUP OF FIGS.

APERIENT medicines until recent years were generally unpalatable and occasionally very nauseous, but with the advances in pharmacy it has been increasingly possible to present medicines in a more palatable form, at the same time maintaining their efficiency.

CORBYN'S NEW **Compound Syrup of Figs** is composed of carefully selected fruits and spices of Eastern origin and has been pronounced by those who have already had supplies a particularly luscious and elegant form of this time-honoured remedy.

We have been told by several pharmacists that it has met with general appreciation, and although perfectly adapted for administration to adults by virtue of its palatability, has leapt into the immediate favour of all the young folk, and we confidently recommend it to customers who are looking for a line that will please their clients.

Packed in white glass panelled flats, elegantly labelled and capped, own name on three dozen.

2-fl.-oz.	**4/6 per dozen.**	**6-fl.-oz**	**9/6 per dozen.**
4-fl.-oz.	**7/3 ,,**	**8-fl.-oz.**	**12/9 ,,**

(*Own Name and Address on 3 dozen.*)

LANOLIN COLD CREAM.

A SUPERIOR Cold Cream, delicately scented with Otto. Handsomely put up in squat opal pots with neat gold labels.

8/- per dozen.

LANOLIN.

HYDROUS. **ANHYDROUS.**

ADEPS LANÆ, B.P.

PRODUCED in our own laboratories from British Material by British Labour with British Capital.

"The sample which we have seen is a first-rate product, and bears out the contention of the makers. It possesses all the desirable qualities of the best quality Lanolin—the faint pleasant characteristic odour, the cream colour and the ideal consistency, We doubt if a better Lanolin could be produced."—*Pharmaceutical Journal*, July 10, 1915.

"BELL & DRAGON" **BRAND**

Registered Trade Mark.

CORBYN, STACEY & CO., LTD.

Brunton's Wharf,

673 Commercial Road East, London, E.

Telephone No. East 1833. Telegrams: "Colocynth, Step, London."

JUNKET TABLETS
ESSENCE OF RENNET TABLETS

THE SEASON HAS
NOW COMMENCED!

See that you hold full stocks.

The demand will be greater than ever owing to the cost of eggs and the restrictions on farinaceous products.

Tubes holding 16 tablets **4/6** per dozen.

Each tablet sufficient for 1 pint of milk.

SHOWCARDS FREE.

Name and Address on 3 dozen.

JUNKET POWDER

In boxwood measure cups.

A more highly concentrated preparation.

Preferred by some retailers to the tablet form.

Each measureful sufficient for 1 quart of milk.

Tube contains sufficient for 20 quarts.

PRICE **7/6** PER DOZ.

Retail 1/- per tube.

Name and Address on 3 dozen.

SHOWCARDS FREE

The Standard Tablet & Pill Co. LIMITED
HOVE, ENG.

Printed for the Proprietors by SPOTTISWOODE, BALLANTYNE & CO. LTD., New-St. Square, E.C. 4; and Published by the Proprietors at 42 Cannon Street, in the City of London.—July 28, 1917.

THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C. SATURDAY, JULY 28, 1917

This Supplement is Inserted in every number of The Chemist and Druggist.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—BANKS OF THE THAMES.—Retail and Dispensing Business; very good connection with local medical men; returns last year £1,870; *net profit* £461 (proof given); price £850; stock and fixtures recently valued at £650.

2.—LONDON, S.W.—Good middle-class Retail and Dispensing Business; returns show a steady increase and are now over £1,600; well-appointed shop, handsomely fitted in mahogany in modern style, and fully stocked; vendor will accept first reasonable offer.

3.—LONDON (Northern Suburb).—Situate in main shopping thoroughfare, well-established Business; increasing income; returns between £1,000 and £1,100; profits exceed the usual rate of middle-class business; well-fitted shop and comfortable residence, with garden; price £600.

4.—KENT (good-class Suburb).—Established Business; returns upwards of £1,400 yearly at fair prices; attractive shop; double fronted; well-selected stock; rent £50 yearly; price £900.

5.—LONDON, N.E.—Ready-money Business; established many years; held by Vendor upwards of 25, now retiring; returns about £650; *net profit* £250; comfortable residence; terms, valuation of stock, and fixtures; part payment entertained.

6.—MIDDLESEX.—Retail and Dispensing Business, situate in growing neighbourhood; returns exceed £500 yearly; corner shop; situate in close proximity to railway station; price about £300.

7.—RICHMOND, SURREY (near).—Very old-established Business; held by vendor many years, now retiring; returns about £870; profits above the average; first reasonable offer will be accepted.

8.—HOME COUNTY.—Ready-money Retail; no N.H.I.; main road position; returns, present rate, between £1,800 and £2,000; *net profit about* 25%; price £500, or valuation if preferred.

9.—BIRMINGHAM.—Retail and Dispensing Business; established many years; returns under management about £600, formerly £1,000; there is also an appointment giving an income of £80 yearly; satisfactory reason for disposal.

10.—SOUTH COAST.—Unopposed Mixed Country Retail Business with own Proprietaries; steadily increasing returns; now between £1,300 and £1,400; rent £45 for double-fronted shop, and good seven-roomed house and garden; terms, lease and goodwill, £120; stock and fixtures at valuation.

11.—BOURNEMOUTH.—Retail and Dispensing Business; held by vendor many years; returns £2,000 yearly at fair prices; terms, goodwill, £100; stock and fixtures by valuation.

12.—SUSSEX (Health Resort).—Retail and Dispensing Business, situate in shopping thoroughfare in chief business centre; returns between £1,400 and £1,500; *gross profit last year* £570; well-appointed shop and comfortable residence; price about £1,000.

13.—HOME COUNTY (Health Resort).—Modern Pharmacy, situate in principal street; returns exceed £1,000; full investigation permitted; the shop is nicely fitted and fully stocked; convenient residence; terms, valuation of stock and fixtures and £100 premium.

14.—CARDIFF.—Retail and Dispensing, together with wines; returns £1,500; excellent premises, situate in main thoroughfare; vendor desires to take up an appointment, and for a quick sale will accept value of stock and fixtures.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone **Profit, the value of Business, &c.,** can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of **confusion and loss.**

Messrs. O. & Co. are prepared to undertake these essential duties, and will make **Special Terms** for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

FOR SALE.

NEST Drawers, mahogany front, 2 ft. 3 in. high, 9 in. deep, 4 ft. 6 in. long, 26 drawers; first 21*s.* secures. 75 spare drawers, 5½ × 7½ × 9; four spare drawers, 5 × 7 × 9; five spare drawers, 10 × 9 × 9; all mahogany front; nearly all glass handles; £3 10*s.* the lot; case and packing extra. Lane, Chemist, Hove.

FITTINGS of small Pharmacy, mahogany, comprising Wall Case, Wall Fixtures, Counter, Glass Front, Bent Glass Show Case, Dispensing Screen. Further particulars from 32/12, Office of this Paper.

O'BRIEN Till in perfect working order; good condition; size 18 by 10 by 8 deep; what offers? Also Half-plate Sanderson Camera, Beck Anastigmat, £5 7*s.*; six D.D. mahogany slides, Thornton-Pickard shutter, canvas case; Holborn Self-locking Ash Tripod. Best price to Bailey, Chemist, Highgate, N. 6.

FOR Sale, second-hand Castor Oil Tins, 20 gross, and Petrol Tins with screw necks (2-gall. tins), 20 gross. Apply quickly to 27/30, Office of this Paper.

SELF-ADDING National Cash Register for Sale; second-hand; suit any business; accept low price for quick sale. Write to F. Ambrose, 20 Cloudesley Road, Islington, N. 1.

SULPHONAL, 3 oz., 7*s.* 6*d.*; Codema, ½ oz., 9*s.* 6*d.*; Aconitina Pur., $\frac{1}{16}$ oz., 7*s.* 6*d.*; Arsenic Iodid, 2 oz., 2*s.* 6*d.*; Butyl Chloral Hydras., 5 oz., 23*s.*; Ammon. Benz., 3 oz., 6*s.* 3*d.*; Thymol, 2*s.* 4*d.* oz.; Atropine Pur., ⅛ oz., 15*s.*; Bayer's Trional, 5*s.* oz.; Bayer's Veronal, 8*s.* oz.; Benzosol, ¾ oz., 3*s.* 4*d.*; Beberinæ Sulph., ½ oz., 2*s.* 3*d.*; Ol. Sabinæ Exot, 4 oz., 4*s.*; Phenazone, 3 oz., 12*s.*; Acetanilid Tablets, 5 grain, 4*s.* 6*d.* 1,000; Cascara Tablets gr. 2, sugar coated, 10,000 22*s.* 6*d.*, 50,000 5 guineas; Ac. Gallic., 8 oz., 2*s.* 6*d.*; Sodii Benz., 2 oz., 3*s.* 9*d.*; Litb. Carb., 4 oz., 1*s.* 8*d.*; 30 cheap Suspensories, 7*s.* 6*d.*; orders 5*s.* carriage paid; cash with order. Payne, Pharmaceutical Chemist, Maidstone.

BATTAM & HEYWOOD
(ESTD. 1837)
CHEMISTS' VALUERS, TRANSFER AGENTS, AND EXPERT STOCKTAKERS.
Balance Sheets Prepared. Books Audited.
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Telephone: GERRARD 2169.

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VALUERS & TRANSFER AGENTS,
35 Jewry Street, Fenchurch Street, City.
Telephone: 1809 CENTRAL.
NO CHARGE TO PURCHASERS.

1.—BIRMINGHAM.—Very profitable Cash Retail, with several good Proprietaries and some Optical; main road position; low rent, on lease; returns £900; net profit last year £320, besides £30 from Agency attached to business; books properly kept; smart well-fitted Pharmacy, heavily stocked; urgent family reasons necessitate a quick sale; price only £450; much under valuation; strongly recommended.

2.—SOUTH COAST.—Sound, unopposed Light Retail Business; returns under manager £600; plenty of scope for increase; rising town; low rent; modern fitted shop, fully stocked, price £375; strongly recommended.

3.—LONDON, N.—Genuine Cash Retail with N.H.I.; in same hands 24 years; now retiring; returns £800; net profit over £250; large, handsome shop; prominent corner position, and in younger hands would soon do £20 weekly; price £300 or valuation; half can remain.

STOCKTAKINGS.

Appointments for stocktakings and valuations should be made early. Full particulars and terms sent on application. See page 90 of the *C. & D. Diary*, 1917.

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

ACCRINGTON DISTRICT, LANCASHIRE.—For immediate disposal, Chemist's Business and Drug Stores; established 50 years; exceptional bargain and opportunity. Apply Lupton & Holt, Solicitors, 57 Market Street, Manchester.

GREAT YARMOUTH.—Genuine old-established Business; good position; low rent on lease; well stocked; good trade all the year round; returns £2,000, with every prospect of considerable increase; price £1,400; easy terms to one taking early control. Shearman, 156 King Street.

LONDON, E.—Cash Drug Stores for Sale, over £600 turnover in two years of starting; well stocked, and a good local trade; no opposition whatever; reason for selling, illness of wife and proprietor in the Army. For further particulars write to 29/26, Office of this Paper.

LONDON, N.—Chemist's Business in busy neighbourhood, prominent corner position, to be sold at a nominal price owing to serious illness of proprietor. Address J. H. W., 2 Copenhagen Street, Islington, N.

FOR immediate Disposal through ill-health, an old-established Agricultural and Family Business in a good market town in Lincolnshire; new front and modern fittings; returns about £1,500, leaving excellent profit. Apply "Business," c/o Lofthouse & Saltmer, Ltd., Wholesale Druggists, Hull.

FOR Sale, a well-established Retail Business in a mining district, Mid-Durham; no competition; returns average £700 yearly, exclusive of N.H.I. Further particulars on application from bona-fide inquiries to W., c/o Wilkinson & Simpson, Ltd., Newcastle-on-Tyne.

PARTNERSHIPS.

OPPORTUNITY now offers in Wholesale Section of old-established Yorkshire concern for Partner able to travel and thoroughly capable of controlling Wholesale side; business embraces village connection, agricultural, and veterinary; increasing returns; ground ripe for considerable development; ample capital essential; bankers' references. "Exors." (29/21), Office of this Paper.

BUSINESSES WANTED.

WANTED, good sound Business; returns must show net profit of £400 or over, and must bear strictest investigation. Full particulars of house and business in confidence to "Retail" (29/16), Office of this Paper.

WANTED to purchase (London), good-class Business; returns over £1,500. Send full particulars in confidence. Apply 25/30, Office of this Paper.

AGENCIES.

AUSTRALIA.—A Manufacturers' Representative in close touch with the trade throughout Australia is desirous of securing Agencies for respectable Houses handling General Chemical and Toilet Lines; first-class references can be furnished; Bankers, Commercial Banking Co. of Sydney. Lynton H. Barrington, *Daily Telegraph* Buildings, Sydney, N.S.W., Australia.

REPRESENTATIVE, working Durham and Northumberland amongst Grocers, Chemists, and Co-op. Stores, wants few lines to sell with present goods; very big, sound connection of 20 years standing. Apply 31/3, Office of this Paper.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

RETAIL.

BEACONSFIELD.—An experienced Assistant required for good-class Dispensing business; short hours; outdoors. Apply, with full particulars, to Mr. R. W. Brooke, Chemist, Beaconsfield.

BIRMINGHAM.—Capable unqualified man required to manage a Drug Store; must be over military age or have been rejected; salary and good commission on profits; lucrative berth to an energetic man. "Stores" (31/803), Office of this Paper.

BIRMINGHAM (Near).—Young lady Assistant required for progressive Chemists' business; one who has had previous experience with a Chemist preferred; state salary required and when at liberty. "Staff" (31/802), Office of this Paper.

BLACKBURN.—Unqualified Assistant or Junior required; ineligible; Wholesale and Retail; active. State reference and wage required to C. A. Critchley & Co., Chemists, 10 King William Street, Blackburn.

BOLTON.—Wanted, reliable Assistant, ineligible, for good-class Light Retail and Dispensing; easy hours; two others kept; must be good Window-dresser; permanency and good prospects to right man; state salary, enclose references and photo if possible, which will be returned. Massey, Chemist, Bolton.

BRIGHTON.—Outdoors; competent Assistant, mainly for Dispensing; hours 9 to 7.30, Wednesday 9 to 9, Thursday 9 to 1, alternate Sundays duty 9 to 2 and from 6 to 8. Apply, with full particulars, stating age, height, salary required, and enclose photo if possible, J. Colby & Co., 101 Western Road, Brighton.

BUXTON.—Assistant, Improver, or Lady (with some experience) required immediately, either temporary or permanent; comfortable indoor berth. Apply, with particulars, age, photo, references, salary, experience, to A. Thresh, Pharmacist, Buxton.

CROYDON.—Assistant wanted for General Retail and Dispensing; capable and reliable. Apply, stating experience, references, salary, etc., Barron, Chemist, 77 High Street, Croydon.

CRYSTAL PALACE.—Qualified Manager wanted; ineligible; single-handed; Cash, Dispensing, and Photographic business; short hours, about 56 weekly; no Sunday or holiday duties; no N.H.I. Full particulars to Prime, Crystal Palace Parade, S.E. 19.

DERBYSHIRE.—Wanted at once, unqualified Assistant, used to general shop routine and N.H.I. work; good recent reference essential; lady or gentleman (ineligible); good salary; easy hours. Apply 30/2, Office of this Paper.

DORKING.—Wanted, lady Assistant (or man if rejected) for the Dispensing Counter; hours easy; employment chiefly Dispensing; state salary (outdoors) and give a recent reference; a lady would find this a good and comfortable berth; good Dispensing experience essential. F. Strawson, 12 Rose Hill, Dorking.

EASTBOURNE.—Competent Assistant required (lady or gentleman) for good-class Dispensing business; with knowledge of Photography preferred; outdoors. In reply state full particulars as to age, experience, and salary required, F. Temple, Meads, Eastbourne.

GLAMORGAN.—Manager; qualified; Light Retail, with N.H.I. Dispensing; half-holiday Thursday; salary £4 per week; abstainer preferred. Full particulars, first letter, to "Codex" (31/16), Office of this Paper.

HALIFAX.—Wanted, a capable, unqualified Assistant, lady or gentleman (latter must be ineligible for military service); short hours; no Sunday or holiday duty; a good permanent berth and liberal salary to the right person. Apply, stating age, height, and salary required, with recent references, to Taylor's (Northern), Ltd., 4 Crown Street, Halifax.

HAMPSHIRE.—Wanted, Improver, Junior, or lady Assistant, or any useful Help, temporarily or permanently, for first-class busy business in beautiful Hampshire country district, close to military camp; ideal spot for summer months. Particulars, saying when disengaged, references, and salary (outdoors), to Mr. Keeble, Liss, Hampshire.

HARROGATE.—Junior Assistant wanted immediately; lady or gentleman. State full particulars, salary required, and references to A. Atkinson, Pharmaceutical Chemist, 2 Parliament Street, Harrogate.

LEEDS.—Wanted, Locum to take charge of Branch about August 1 for five or six weeks (indoors); light work. T. J. Preston, Oakwood Pharmacy, Roundhay, Leeds.

LEEDS.—Wanted, competent qualified Locum two weeks during September; good-class Retail and Dispensing business; residential suburb. Apply 29/11, Office of this Paper.

LIVERPOOL.—Assistant; qualified; middle-aged or elderly; comfortable post; hours 9.30 to 8 P.M.; half-day weekly; alternate Sunday 6 to 8 P.M. Apply, stating salary (photo if possible), 30/22, Office of this Paper.

LONDON.—Locum wanted for first week in August; good references required. Also wanted, Junior Dispenser (lady or gentleman) as permanent Assistant. Write or call between 2 and 7 p.m., S. E. Amos, Pharmacist, 31 Heath Street, Hampstead, N.W. 3.

LONDON.—Qualified man, ineligible for Army, for brisk Counter trade; whole day holiday a week; occasional Sunday duty. Apply personally or write, stating full particulars and salary required, to Wm. Fox & Sons, Ltd., 109/113 Bethnal Green Road, E. 2.

LONDON (CITY).—Required, qualified Assistant over military age; good-class business; hours 9 a.m. to 7 p.m., 1.30 Saturday. Apply, with usual particulars, Vines & Froom, 64 Aldersgate Street, E.C.

LONDON (CITY).—Wanted at once, lady with good Dispensing and Counter experience; state particulars and salary required. Apply "Sherwood" (32/9), Office of this Paper.

LONDON, N.W.—Qualified Assistant wanted for Dispensing business (man or woman); furnished house if desired. P. Davidson, Ph. Chemist, 342 High Road, Brondesbury, N.W. 6.

LONDON, N.W.—Lady Assistant required, with some Dispensing experience and good handwriting. Apply W. H. Bell & Co., 96 Albany Street, Regent's Park, N.W.

LONDON, N.W.—Lady Assistant required, with good-class Dispensing experience; indoors. Apply, Elmer Pettinger, 30 Rosslyn Hill, Hampstead, N.W.

LONDON, N.W.—Wanted for two or three weeks early September, by firm of doctors, qualified Dispenser; must have experience. Apply 32/8, Office of this Paper.

LONDON, S.E.—Part-time Assistant required, ineligible for Army, with knowledge of Photography, to assist at Counter and N.H.I Dispensing; hours 6-8, Saturday 2-9, and occasional Sunday duty. Write, stating age, experience, and salary required, L. P. Sharpe, 39 High Street, Thornton Heath.

LONDON, S.W.—Wanted, an Assistant; ineligible for military service. Apply, with full particulars, to Amoore & Co., 173 Sloane Street, S.W. 1.

LONDON, W. 2.—Experienced male Assistant for the Front Counter; medically unfit or over military age; outdoors; short hours. E. C. Evans, Pharmacist, Whiteley's, Queen's Road, W. 2.

LONDON, W.—Manager, qualified, over military age or ineligible, for good-class Retail and Dispensing business in West-End; good salesman. Apply, giving full particulars of experience and salary required, arranging interview, Goodall, 66 Lower Richmond Road, Putney.

LONDON, W.C.—Wanted, Assistant accustomed to good-class Retail and Dispensing, or part-time. Also Locum (outdoors). Burden & Co., Dispensing Chemists, 41 Store Street, Bedford Square, W.C. 1.

LUDLOW.—Wanted, a capable unqualified Assistant; over military age or rejected; short hours; no Sunday; half-day weekly; junior kept; salary 50s.; give usual particulars and references. Woodhouse & Son, Chemists, Ludlow, Salop.

MANCHESTER.—Young lady, with some Counter and General experience, required for Chemist's establishment situate in working-class district; comfortable; permanency. "Manchester" (31/8), Office of this Paper.

MANCHESTER.—Qualified Manager wanted for Branch; Light Retail and small N.H.I. Dispensing; middle-class district. Apply, stating age, salary expected, and full particulars, to Cuttiford, Pharmacist, Langworthy Road, Salford.

MANCHESTER.—MOTTERSHEAD & CO. require an experienced Dispenser accustomed to high-class business. Reply, giving full particulars of experience, with age and salary expected, 7 Exchange Street, Manchester.

MANCHESTER DISTRICT.—Qualified Assistant required; elderly and active; easy berth; good references essential. Full particulars, with age, salary, and photo, interview preferred, to 27/6, Office of this Paper.

NEWCASTLE-ON-TYNE.—Wanted, capable, unqualified Assistant (either sex) for quick Cash business at Stockton-on-Tees; must have excellent references. Milburns, Chemists, 95 Northumberland Street, Newcastle-on-Tyne.

NORTHUMBERLAND.—Qualified Assistant required; high-class Light Retail; short hours (46 hours per week); no Sunday duty; suit elderly or delicate man. State full particulars and salary required to Wilson, Chemist, Corbridge.

ORMSKIRK, NEAR LIVERPOOL.—Wanted, smart lady Assistant, used to Counter and Dispensing, in good-class country business (outdoors). Apply, with full particulars, to Garside's, Ltd., Chemists, Ormskirk.

PORTSMOUTH.—Wanted immediately, Assistant (or Locum), unqualified or qualified, ineligible for Army or over age, with Dental experience of extractions, taking impressions, etc., preferred (mechanical work is sent out); permanency for capable man with view to partnership or succession. Fox, Chemist, Portsmouth.

REDDITCH.—Assistant immediately for Mixed business (outdoors). Mousley, Chemist, Redditch.

ROTHERHAM.—Junior or Improver at once for a few weeks. Apply, full particulars, S. P. Billington, 79 Midland Road, Rotherham.

SANDWICH.—Wanted at once, unqualified Assistant; good hours; good wages; no Sunday or Bank Holiday duty. Apply, stating terms, etc., to Fredk. J. Dyer, M.P.S., Sandwich.

SOUTH LONDON.—Assistant wanted as Locum for month of August; permanency if to mutual satisfaction; good salary offered; busy Cash trade. Also part-time Assistant. In reply kindly give usual particulars as to age, references, experience, etc., to 32/7, Office of this Paper.

SOUTH OF ENGLAND.—Assistant required (male or female); free removal; permanency with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

SOUTHPORT.—Assistant accustomed to good-class Retail and Dispensing. Please state age, experience, references, salary required (outdoors), and photo if convenient, J. R. Cave, Ltd., 52 Nevill Street, Southport.

TUNBRIDGE WELLS.—Qualified Manager for good Dispensing and Retail; able to control; three kept; permanent (outdoors); good salary to capable, reliable Manager. Pearmund, Chemist, 17 Calverley Road.

WAKEFIELD.—Manager or Locum, qualified, energetic, obliging, for middle-class Pharmacy, General Prescribing, N.H.I., and Light Retail, with view to purchase if suitable (preferred but not essential); exempted if of military age. Apply, stating full particulars, with references and salary required, Green, Bella-Vista, Eastmoor Road, Wakefield.

WEST NORWOOD.—Wanted for sole management, Dispensing and Photographic; well up N.H. Dispensing; single; live in; owner at Front; widow dependent on business. Apply by letter in first instance, stating salary, 7 The Broadway, West Norwood, S.E.

WESTON-SUPER-MARE.—Qualified Assistant (ineligible for Army) wanted at once for branch Dispensing business; hours 9 to 8; Sunday duty 3½ hours every third Sunday; salary £4 weekly (outdoors); Dispenser kept. Full particulars, first letter, to Wing, Galen House, Weston-super-Mare.

WINCHESTER.—Counter hands; also qualified Dispenser for the holiday season. Apply Hunt & Co., Dispensing Chemists, 45 High Street, Winchester.

WINDSOR.—Locum wanted for three weeks in August or early September for Light Retail and Dispensing business. Apply, stating salary (indoors or outdoors), with references, to R. W. Houfe, Pharmaceutical Chemist, Windsor.

WISBECH.—Wanted, a reliable Assistant (outdoors) for a good-class country business; easy hours; small amount N.H. Dispensing. Oldham, Chemist, Wisbech.

WOLVERHAMPTON.—Wanted for month of August, a lady Assistant. Apply, with full particulars (outdoors), to F. J. Gibson, Pharmacist, Wolverhampton.

WOOLWICH.—Wanted, reliable Assistant; qualified preferred; either sex (outdoors). Also a Junior Assistant required. Apply, with full particulars, to A. J. Wing, 69 Powis Street, Woolwich, S.E. 18.

YORKSHIRE (West Riding).—Manager (qualified) required for progressive Cash business; must be a rejected man or above military age; liberal interest in the profits offered to a really capable man. "Urban" (31/80), Office of this Paper.

ASSISTANT (either sex), with Dispensing experience and quick; short hours; no Sunday work. State salary asked (outdoors) and all particulars, Morrison, Tring.

ASSISTANT wanted (lady or gentleman), chiefly for Dispensing and some Retail; previous experience most essential. Please give full particulars to E. L. Slade, Chemist, 3 Station Parade, Kew Gardens.

ASSISTANT or Manager. Give experience and reference, W. R., 22 New Road, Peterborough.

ASSISTANT wanted at once (either sex) for Counter and Dispensing; easy hours. Full particulars to Briggs, Chemist, 75a High Street, Walthamstow, E. 17.

ASSISTANT (either sex) as Locum, evenings or whole time, capable and reliable, for Dispensing for Greenwich, S.E. district. Apply, stating experience, salary, etc., to Barron, Chemist, 77 High Street, Croydon.

ASSISTANT (ineligible for military service), or lady Assistant used to Dispensing and Counter; comfortable berth; two kept; please state age, experience, salary (outdoors), and latest references. Bevan & Son, Pharmacists, Colchester, Essex.

ASSISTANT wanted for good-class Dispensing and Agricultural business; qualified and ineligible, or over military age; indoor or outdoor. Apply Cox & Robinson, Stony Stratford.

AUSTINS, LTD., have a vacancy for a qualified Assistant (lady or gentleman) at their Retail Pharmacy, 198 Bermondsey Street, S.E.; good references essential; applicants resident in London may 'phone Hop 1894 to make appointment for interview. Austins, Ltd., 196/202 Bermondsey Street, London, S.E. 1.

BRANCH Manager (qualified) wanted immediately; must be over military age or ineligible; knowledge of Photography essential; good salary to good man. Apply 89/601, Office of this Paper.

DISPENSER wanted, General Medical Practice, morning and evening work; no bookkeeping. Write, stating experience, terms, etc., to Dr. Bishop, 5 King's Cross Bridge, N. 1 (Metropolitan Railway Station). If application is entertained an interview will be arranged.

DISPENSER wanted (lady) by Medical man near Manchester. Apply, by letter, giving full particulars, to "Doctor," c/o Messrs. J. C. Arnfield & Sons, Ltd., Prince's Street, Stockport.

DISPENSER and Counter Assistant for a Mixed-class business; in- or out-door; single or married. State full particulars to Savage & Co., Pharmaceutical Chemists, Brighton.

DISPENSER and Counterman wanted, unqualified, with some Photographic experience; must be ineligible or over military age. Apply, stating salary required, and enclosing, if possible, recent photograph, to "Progress" (89/6), Office of this Paper.

EXPERIENCED Parcel Post Despatch Clerk; ineligible; state salary required. Apply R. Sumner & Co., Ltd., 40 Hanover Street, Liverpool.

FULLY-QUALIFIED lady or gentleman, over military age, required immediately for Dispensing and Counter in good-class business on South Coast. Apply, with full particulars, to W. J. H. Longman, Beach Road, Littlehampton.

JUNIOR Assistant (ineligible for military service) or Lady Assistant for good-class country business; outdoors; healthy town; pretty district. Apply, stating age, experience, salary, and references, Ridley, Ph. Chemist, Tenterden, Kent.

L.P.S.I. WANTED as Manager (Belfast); salary and share profits; good berth for live man. Testimonials (copies) and full particulars to 29/23, Office of this Paper.

LADY Dispenser required in good-class business; easy hours; no Sunday duty (outdoors). State age, experience, salary, reference, and when disengaged, H. Barnett, Chemist, Hythe, Kent.

LADY Assistant (Hall qualification) required in pleasant healthy town 34 miles from King's Cross; moderate hours; no Sunday or after business duty; Dispensing and Light Retail; two apprentices kept; comfortable inexpensive lodgings obtainable. Apply, stating age and full particulars, with salary required and how soon available, to J. H. Herington, Pharmacist, Dunstable.

LADY Dispenser wanted by a firm of Surgeons at once; Apothecaries' Hall qualification preferred. Will applicant kindly give full particulars of previous experience, age, and salary required to Dr. Statham, Lymington, Hants.

LADY Dispenser, with first-class experience, required for West-End Pharmacy. Apply Lewis & Burrows, 146 Holborn Bars, E.C.

LEWIS & BURROWS require the services of a first-class Counterman for a West-End Pharmacy. Apply, with full particulars, to 146 Holborn Bars, E.C.

LOCUM (qualified) wanted at once. Apply Manager, Household Stores Association, Ltd., King Street West, Manchester.

LOCUM (indoors) fortnight commencing September 3; sole charge; easy berth; colliery district. Apply, giving full particulars, to 29/20, Office of this Paper.

LOCUM required soon as possible, competent Assistant, for about four weeks for Light Family Retail and Photographic trade. Apply, with full particulars, references, and salary required (outdoors), to Shillcock & Sons, Bromley, Kent.

LOCUM.—Lady Dispenser required for three weeks in August; country town near London; experience with Doctors essential; 3 guineas weekly. Send particulars to 31/9, Office of this Paper.

MANAGER or qualified lady Dispenser wanted for Suburban Chemists (Lee Green, S.E.); qualified; must be ineligible for military service. Write, stating age, experience, and salary required, to Frost & Harrison, 3 Eltham Road, Lee Green, S.E.

MANAGER FOR GOOD PROVINCIAL RETAIL; Easy hours; well-conducted business; good salary; some knowledge of Spectacle Optics preferred. Opportunity to release Manager (category A) for Military Service. Particulars to and from "W. E. E." (31/13), Office of this Paper.

MANAGER (lady or gentleman) for high-class Dispensing business, Islington; also part-time lady. Apply 71 East Hill, S.W. 18.

MANAGER at once; ineligible for Army; steady and reliable; permanency for suitable man. Also Locum for one or two weeks (at once). Apply "Aspirin," 58 York Road, Waterloo Station, S.E.

MANAGER, unqualified, for Branch; Outer London; practically sharing terms; outdoors; no Sunday work; no Dispensing, no Poisons; technical knowledge not so important as salesmanship, Window-dressing, and Business capabilities; comfortable permanent berth for right man. State definitely age, experience, and salary expected to 32/16, Office of this Paper.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist (male or female); easy hours; good and progressive salary, with excellent prospects; free removal.

PERMANENCY.—Qualified, for small Branch near Bolton; state salary required; help kept. Apply Waller & Riley, Ltd., Bolton.

QUALIFIED Manager or Assistant (lady or gentleman) for medium-class business; N.H.I. and Photography; £4 per week (outdoors) to one suitable. H. Knight, 21 Merton Road, Wimbledon.

QUALIFIED Manager wanted with a view to purchase the Business of the late Mr. William Dodge, 142 Love Lane, Heaton Norris, Stockport. Apply to Executor, Mr. W. E. Sugden, 19 Dickinson Street, Manchester, or Messrs. James Woolley, Sons & Co., Ltd., Victoria Bridge, Manchester.

QUALIFIED Manager, age about 46, required immediately for Relief work; Yorkshire and Lancashire; permanency afterwards if satisfactory. "Relief" (31/801), Office of this Paper.

QUALIFIED Manager wanted; Manager called up can recommend exceptionally comfortable and lucrative post; no menial work; splendid opportunity; nice locality in South; applicants must be ineligible. "Exceptional" (89/3), Office of this Paper.

QUALIFIED Assistant required for Retail and N.H.I. Dispensing business in S.E. London; preference given to one ineligible for military service and able to produce satisfactory credentials. Apply 32/10, Office of this Paper.

QUALIFIED Assistant (lady or gentleman) wanted at once; also qualified Assistant for evening work and to relieve duty. Please give full particulars of experience, salary required, etc., to Frank A. Rogers, 327 Oxford Street, W. 1.

REQUIRED immediately, lady Dispenser for good-class business; must be capable. Apply, enclosing photo if possible, stating experience and salary required (outdoors), to Barnes & Marsh, Putney, S.W. 15.

REQUIRED, girl accustomed to weighing powders and pill-making, in a large West-End house. Apply, stating full particulars of past experience and salary required, to L. J., 270 Sell's Advertising Offices, Fleet Street, E.C. 4.

REQUIRED, lady Counter Assistant, with experience in the selling of Perfumery and Druggists' Sundries in ordinary demand; smart appearance; hours of work 8.45 to 6 o'clock, and 1 o'clock Saturdays; no Sunday duty. Apply, stating full particulars of past experience and salary required, to L. J., Army and Navy Stores, 105 Victoria Street, S.W. 1.

REQUIRED, lady Dispenser; hours of work approximately 8.45 to 6 o'clock, and 1 o'clock Saturdays; no Sunday duty. Apply, stating full particulars of past experience and salary required, to L. J., Army and Navy Stores, 105 Victoria Street, S.W. 1.

SURGICAL Instrument Business Assistant for front shop. Address, stating age, wages expected, and duties accustomed to, Box "Surgical," Lee & Nightingale, Liverpool.

TEMPORARY Dispenser and Photographer, ineligible for military service, required at the Glamorgan County Asylum; must be fully qualified; salary to commence at £100 per annum, with 5s. per week war bonus and lunch five days weekly; must reside within two miles of the Asylum. Applications, stating age and qualifications, with copies of three recent testimonials, to be sent to the Medical Superintendent.

UNQUALIFIED Assistant for Dispensing duties, chiefly in good-class Store business; applicants must be men ineligible for military service or women; easy hours; no Sunday, night, or Bank Holiday duty. State particulars of experience, age, and salary required to Martyn's Stores, Ltd., 26 Queen Street, Wolverhampton.

WANTED (September 1), competent qualified Assistant; outdoors; lady or gentleman; if gentleman must be ineligible. Send full particulars, age, salary, etc., to Green, Chemist, Southborough, Tunbridge Wells.

WANTED, a qualified Assistant, lady or gentleman (exempt from military duty). Apply, stating age, experience, and salary required, (permanent position for a suitable person), to Walker & Darling, Chemists, Tyne Dock, and South Shields, co. Durham.

WANTED, an indoor Assistant; unqualified; ineligible for the Army; South of England; please state age and all usual particulars in first letter. Apply to "A. B. C." (28/33), Office of this Paper.

WOMAN Packer accustomed to putting up Chemist's stock. Give full particulars to "A. J. B. C.," Cooper, Son & Co., Ltd., 80 Gloucester Road, S.W. 7.

YOUNG lady Assistant for Counter and Dispensing; must have had previous experience; no one with Doctor's experience only need apply. Write "Pills" (89/600), Office of this Paper.

WHOLESALE.

MANCHESTER.—Manufacturing Chemists seek someone experienced in making Emulsions, Ointments, and B.P. Preparations generally; must bear good references; qualification unnecessary; good wages. Apply to P. D. C., c/o Messrs. Quilliam & Co., Victoria Bridge, Manchester.

ASSISTANT in Surgical Instrument business in provinces. Address, stating age, duties accustomed to, and wages expected, 61/59, Office of this Paper.

CHEMIST Perfumer required to manage small department in London; should be a gentleman with initiative and experience in the manufacture and sale of Toilet Preparations; permanent and progressive position. Apply, with full particulars, to "X. Y. Z." (88/5), Office of this Paper.

CLERK with good knowledge of Drug Trade; experienced in pricing and extending invoices; good salary to suitable applicant; must be ineligible. Also an Assistant with knowledge of the Instrument trade required. Apply, with full particulars, to R. Sumner & Co., Ltd., 40 Hanover Street, Liverpool.

INVOICE Clerk required; ineligible; lady clerk would be considered if fully experienced. Apply by letter, stating experience and salary required, to A. M. D., Harker, Stagg & Morgan, Ltd., Devon Wharf, Emmott Street, Mile End, E. 1.

LABORATORY working Assistant wanted at once; must be ineligible or C3 man; one accustomed to the manufacture of Galenicals and Pharmaceutical Preparations. Apply, stating salary required and when disengaged, to "Syrup" (89/602), Office of this Paper.

LADY required by London house to assist in the making of Pharmaceutical preparations; Minor or Apothecaries' Hall qualification; no heavy work. "A. N." (88/19), Office of this Paper.

PERFUMERY.—Wanted, Perfumer, with experience in the compounding of Perfumery and Perfumes for Soap; must be a man of initiative, and have full knowledge of modern Synthetic Perfumes; good salary to capable man. Apply 81/40, Office of this Paper.

REPRESENTATIVES wanted for London and Provinces for two grand selling lines that are right in front: Face Creams and Shampoos; must have good connection among Chemists; satisfactory references essential; good commission. Apply 26/5, Office of this Paper.

SHORTHAND Typist required in office of City Wholesale Druggist; previous experience in the trade essential. Apply by letter, giving full particulars and salary required, to 89/22, Office of this Paper.

TRAVELLER wanted for local country Wholesale; willing to make himself useful in warehouse and familiar with requirements of small shops; able to drive. Please write fully, with salary required, to "Yorkshire" (29/210), Office of this Paper.

TOOTH Paste, Face Cream, and General Toilet Preparations.—Very good opening offered to ineligible or discharged man, preferably Chemist experienced in above lines; good prospects. Write full details, past experience, salary, etc., to T. P. F., at Willmore's, Chiswell Street, London, E.C. 1.

TRUSS-FITTER wanted for the Midlands; must also understand fitting Belts and Elastic Hosiery. Reply, stating full particulars and wages required, to 10/35, Office of this Paper.

MANUFACTURING PERFUMERY.

WANTED, an Assistant, with experience in the Manufacture of Hair Washes, Pomades, Cosmetics, etc.; ineligible for the Army. Apply Osborne, Garrett & Co., Ltd., 51/4 Frith Street, Soho, W. 1.

WANTED for Chemical and Drug Trade, experienced man for Office work, including correspondence and shipping; linguistic knowledge desirable; permanency and liberal progressive salary offered to suitable man. Apply 87/3, Office of this Paper.

WANTED, lady Assistant in large West-End warehouse, for attending to and putting up orders received through the post; should be experienced in Patents and Druggists' Sundries; good salary and commission paid. Apply, stating full particulars of past experience and salary required, to L. J., Army and Navy Stores, Ltd., 105 Victoria Street, S.W. 1.

WANTED, Clerk (ineligible for military service), with some experience in shipping Drugs and Chemicals. Address "Export" (32/13), Office of this Paper.

REQUIRED, by leading British Oil Refiners, Agents, in various parts of the world where not already represented, calling on Manufacturing Chemists and Druggists and Allied trades. Apply 67/40, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

CEYLON.—Qualified Assistant wanted; good salesman; pleasant address; four years' agreement; salary 225, 250, 275, and 300 rupees per month. This is an excellent opportunity for a good man. In addition to the above salary there is a commission for night duty which averages about 50 rupees per month. Only gentlemen ineligible for the Army need apply. C. A. C. (87/32), Office of this Paper.

JAPAN.—Wanted a good practical Soapmaker; one who has had experience in manufacturing high-class toilet soaps; a knowledge of practical Chemistry would be an advantage, but not essential; applicants must be ineligible for the Army; disabled soldiers capable of supervising are invited to apply; passage paid out and home and a good salary to capable man. Send full details of experience, etc., to P. L. S., 26/23, Office of this Paper.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

[HOME.]
RETAIL.

AS Dispenser; Stock Bookkeeping or manufacturing preparations; Hospital and Store experience; ineligible. Apply 32/100, Office of this Paper.

ASSISTANT; all-round experience Extractor Dispenser; North preferred, Notts or Yorks; over military age. Apply "Calcium" (29/14), Office of this Paper.

ASSISTANT; Dispenser; provinces; disengaged; elderly; active. Apply 30/29, Office of this Paper.

CHEMIST'S daughter, two years' Counter experience, desires post London or South Coast. "C. L.," 59 Ayshford Street, Shelton, Stoke-on-Trent.

DISPENSER; 38; abstainer; Hospital and Doctor's experience; ex-Army Compounder; good genuine references; locum or permanency. Cameron, 5 Corporation Buildings, Lyme Regis, Dorset.

DISPENSER or Locum Dispenser. "H." (32/15), Office of this Paper.

DOES any Chemist require help, September 10 to 22? High-class Retail, Dispensing. Young man. Interesting or sea-side place. "Verus" (27/34), Office of this Paper.

EXPERIENCED, qualified Manager, 38, married, exempt, desires country seaside berth about beginning September; view succession preferred; South or South-West Coast. Apply "Spes" (10/34), Office of this Paper.

LADY Dispenser (qualified) desires Dispensing for few hours on Sundays; S.W. district preferred; 3½ years' experience; good references. "K. L.," 24 St. Michael's Road, Stockwell, S.W. 9.

LIGHT post required by ex-R.A.M.C.; 50; country or small town; South preferred. 152 Sheringham Avenue, Manor Park, E. 12.

LOCUM (39); August 6 to 20 only; £3 10s. weekly; first-class experience. "Hants" (28/30), Office of this Paper.

LOCUM.—A vacation is absolutely necessary these days of strain and overwork. Advertiser, age 44, married, qualified, keen, steady, and active, has August and September open for Locum work in, or district, Newcastle-on-Tyne. Write 28/280, Office of this Paper.

LOCUM; qualified; 32; London experience; teetotaller; excellent references; disengaged; brilliant record. "Statim" (32/2), Office of this Paper.

LOCUM; lady Dispenser (experienced); seaside preferred. Apply 30/11, Office of this Paper

LOCUM or Temporary Manager; qualified; steady and reliable; Manchester or Huddersfield district preferred; disengaged from August 1. Cottrell, Chemist, Delph, Oldham.

MANAGER.—A skilled, qualified Chemist who can take an intelligent interest in his business is open for engagement early in September; 44 years old, married, one child, most temperate in habits, keen and active; North of England country town preferred; photograph and full particulars on request. Write 28/28, Office of this Paper.

MANAGER, qualified, experienced, disengaged early in August. Further particulars from "Manager," W. Dodge, Chemist, 142 Love Lane, Heaton Norris, Stockport.

MANAGER; qualified; good-class business; North or Midlands; shortly disengaged. Apply 32/4, Office of this Paper.

MANAGER or Locum; qualified; experienced Buyer, Salesman, and Window-dresser; London preferred. Apply 30/7, Office of this Paper.

MINOR, M.P.S., elderly, energetic, well connected, abstainer, Locum, or to suit requirements. Photo, references, all particulars, country district, Jas. Hitchcock, 21 Waldeck Road, Nottingham.

PART-TIME; qualified; 24; a few hours during evenings, also Sundays; speaks French; Central or West London. Apply "M.P.S." (129/35), Office of this Paper.

QUALIFIED Manager or Dispenser; 47. Chemist, 35 Ecclesbourne Road, Islington, N. 1.

RELIABLE Dispenser and Surgery Attendant, 29, disengaged July 15th, requires Locum or permanency with Doctor or Institution; last situation 5 years with Doctor. Write Mr. M. Birch, 16 Melrose Gardens, Brook Green, W.

UNQUALIFIED Assistant desires situation (outdoors) in country town; able to take charge; permanency; accustomed to good-class Dispensing and Family trade; also light Agricultural; age 46; active; disengaged during August. Parker, High Street, Malpas, Cheshire.

UNQUALIFIED; 36; Dispensing and Photographic, expert Salesman; exempt. Apply 30/40, Office of this Paper.

UNQUALIFIED desires post as Manager of Drug Store; fully exempt from military duty; first-class experience. Apply 31/10, Office of this Paper.

YOUNG gentleman, discharged from Army, age 22, desires post with Chemist (indoor) if possible, or would travel for Wholesale house. 26/19, Office of this Paper.

WHOLESALE.

ADVERTISER (C2), 12 years' Wholesale and Retail experience, thorough knowledge of Export trade, desires position where abilities as Organiser would be appreciated, or would travel; excellent references. Apply 30/3, Office of this Paper.

ADVERTISER, Honours Chemist, 20 years' manufacturing and analytical experience, control of men and plant, desires engagement with substantial firm; energetic and resourceful; military exempted; excellent references. Honorsman, 128 Empress Avenue, Ilford.

AS Representative; well-educated gentlemanly Assistant (24 years) desires eprmanency with Wholesale house; thorough knowledge of Drug Trade; good Salesman; well recommended by present employers; ineligible; town or country. Apply "Energetic" (32/17), Office of this Paper.

DO you want Representative London and South Coast, with connection? Ineligible Army. Write 28/27, Office of this Paper.

EXPERIENCED Office, Warehouse, General assistance; capable making preparations Toilet or General; ineligible. Apply 32/10, Office of this Paper.

GENTLEMAN desires position as Travelling Representative; over military age; 20 years' first-class experience; most successful interviewer of Doctors and Chemists; highest references. Apply 29/10, Office of this Paper.

PERFUMER, expert in Toilet Preparations, Creams, etc., wants change; London only. Apply 28/7, Office of this Paper.

PHARMACIST (ineligible) desires position in Wholesale where ability and energy would be appreciated, with opportunity to invest capital. Apply 30/21, Office of this Paper.

REPRESENTATIVE.—An experienced, qualified Chemist, over military age, leaving Retail, seeks appointment as sole Representative for good Drug or Chemical house, or is open to entertain two or three agencies for good going lines; territory Somerset, Devon and Cornwall, or South Wales. Write "Burnham" (29/40), Office of this Paper.

TRAVELLER (discharged) covering West of England and Wales desires additional line; good connection; references. Jay, 30 St. Luke's Road, London, W. 11.

TRAVELLER (Chemists), Kent, Sussex, Hampshire, open, additional line; commission and part expenses. Apply 30/27, Office of this Paper.

MISCELLANEOUS.

RED DOUCHE TUBING available; 1,050 lb.; packed in 1-lb. boxes about 18 ft. to the lb.; price 2s. 4d. per lb., in lots of not less than 50 lb. J. Murray & Co., Ltd., 31/3 High Holborn, W.C. 1.

£50—Second-hand Shop Fittings; complete set; excellent condition; just out of use; 9 ft. 6 in. Drug Fitting, with shelving, cornice, and locker, and 66 drawers; 12 ft. 6 in. Glass-fronted Counter, and 6 ft. 6 in. do.; mahogany tops with drawers at back; Mahogany Perfume Case and Desk; Mahogany Dispensing Screen; 4 ft. Mahogany Counter Case; Tooth-brush Case; Brass Counter Scales and Weights; 4 Carboys Stands. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C. 1.

OFFERED, 400 lots Leos Pills and Tablets, including the following: Tablets, Phenacetin and Caffeine (about 40,000), Antipyrine and Caffeine, Blaud's Pill and Combinations, Bismuth Rhubarb Soda, etc., Cascara, 4 and 5 gr., chocolate coated, Lithia Cit. Effer., Quinin. Sulph. Phenolphthalein, gr. ¾, Ergotin Aloin. Co., Anticonstip., Laxative Vegetable Pills, Plumbi c. Op., Aloes et Asaf., Aloes et Ferri, Aloes et Myrrh, Coloc. Co., Coloc. et Hyos, Galbani Co., Pil. Hydrarg., Scillæ Co., Cochia., Calomel, Blaud Combinations, Castor Oil, Hyd. c. Cret. c. Ipec. Co. All are offered at 33⅓% off net list, and full list will be sent on application. A. S. Price & Co., Ltd., Blackheath, Birmingham.

FOR Sale, 5 cwt. best absorbent Cotton Wool, 1 lb. rolls; 2 cwt. best Hospital Lint. Best offer secures. Apply 88/58, Office of this Paper.

MCADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone: 81 Lee Green.
Shares for Sale (free of commission subject).—100 Bovril 7% Ordinary, 20*s.* 6*d.* c.d.; 200 Mellin's Food 6% Preference, 13*s.* 6*d.*; 200 Lever 6% "C" Preference, 20*s.* 3*d.*; 300 Wright Layman Preference, 19*s.* 10½*d.*; 200 Magadi Soda Deferred, 3*s.* 9*d.*; 60 Barclay & Sons fully-paid Preference, 10*s.* 6*d.*
Wanted (subject), 200 Allenbury Preference, 18*s.* 9*d.*; 100 Camwal Preference 5*s.* 4½*d.*, Debentures £30; Idris Debentures, £56 per cent.; 200 Lewis & Burrows, Ltd., 4*s.* 7½*d.*, 100 Preference 13*s.*
Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

SECOND-HAND Chemists' Fittings.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

CHEMIST'S high-class Second-hand Fittings: 10 ft. handsome mahogany Plate-glass Piano Wall Case; 14 ft. Drug Fitting, labelled drawers and cupboards; 6 ft. Dispensing Screen; 10 ft. Plate-glass-fronted Counter; 5 ft. Bent Plate-glass Counter Case; Silent Salesman; Perfumery Case and Desk, Label Drawers; the lot £110; absolute bargain; cheapest house for Window Enclosures, Glass Shelves, modern Shop Fronts, improvements, etc.; plans prepared; estimates submitted. Mill's Shopfront, Shopfitting Glass Facia Works, 163 & 5 Old Street, E.C. 'Phone: L.W. 550.

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White Demy, Yellow Wove (Blue), Brown Tissue, White and Coloured Do., Small Hands (Whitey-Brown) Sulphites, Kraft, and English Browns. Twine in 8 oz. balls £ 10/6 per doz. Parcel String in 1 lb. balls @ 15/- per doz. Samples sent on receipt of card stating size and weight of paper required. Cash with order.

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ENEMY ROUTED.

THOUSANDS KILLED IN ONE ONSLAUGHT.

News has been received from the various fighting fronts in France, Mesopotamia, Salonika, &c., of a powerful new gas, absolutely a sure killer of trench lice and vermin, but of wonderful assistance to our men, warding off all insect attacks as well as preventing Typhoid, Dysentry, &c. This remarkable gas is generated from "Kennedy's Belts."

The belt being worn by the soldier next to the skin, fills his whole clothing with a delightful health-giving gas, beneficial to mankind but sure death or retreat to vermin.

Already hundreds of thousands are in use, and their value is daily becoming more widely known, owing chiefly to the enthusiastic recommendations of the soldiers who are lucky enough to wear one.

Kennedy's wonderful belts are now sold by most up-to-date Chemists and Stores. The cost is only 1s. 6d. each, 3 belts for 4s.

In case of difficulty in obtaining supplies, the inventor, Mr. G. Kennedy, 2 Park Road, Liverpool, will be glad to send any number to any address in the world on receipt of the price.

We recommend all our readers to take advantage of the offer, as hundreds upon hundreds of the soldiers from the trenches have written home to the inventor thanking him and expressing their gladness that they ever got Kennedy's belt or saw his advertisement.

KENNEDY'S BELTS

Cost YOU
12/- per doz., carr. paid,
or 3 dozen for 36/-

With a Bonus of ¼ doz. free.

Buy direct or through your Wholesalers.
Ucalites send Orders to Ucal.

Advertising posters, caps, testimonials, &c., with all orders. Send your order now.

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BEST Results. 6 Exposures, any size, 4d. net. | *QUICK Returns.* 12 Exposures, any size, 6d. net.

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4 Norlington Road, Leytonstone, E. 11.

YOUR CUSTOMERS WILL BE PLEASED WITH RESULTS IF THE ORDERS ARE GIVEN TO US.

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FOR DISPOSAL.

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FOR Sale, 12 Dental Show-pieces. R. Lamb, 123 West End Lane, London.

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½ GROSS each strong Millboard Boxes with hinged lids, 10 in. × 9 × 3 and 19 × 6½ × 4½. Best offer to Carlton & Sons, Horncastle.

½ lb. Ol. Anethi; ½ lb. Ol. Carraway; 2 oz. Ol. Coriandri; 1 oz. ea. Oils Cymini, Cubebs, Hemlock, Pimento; 2 lb. Powdered Gamboge. Offers or exchange. Holland, 207 Alfreton Road, Nottingham.

4 × 1 oz. Glycerine Syringes, 1 oz. Quinine Salicylas, 2 oz. Zinc Valerianas, 4 drams Phenol Phthallein, 1 oz. Trional (Bayer), 9 oz. Lycopodium, 2 oz. Iodoform, 6½ oz. Ammon. Benzoate. Wanted, best offer for any of them, or exchange for "B" Sparklet Syphon or small Bishop's Citrate of Piperazine. Apply 27/32, Office of this Paper.

2 × 25 B.W. Guaiacol Carb. 4*s*., bott. 10 tabs. Alypin 1*s*. 6*d*., 3 × 1 oz. Bayer Aspirin 2*s*. 6*d*. ea., 1 × 25 tabs. Helmitol 1*s*. 6*d*. 1 × tube Sajonin tabs. 1*s*. 6*d*., 1 oz. Mesotanol 1*s*., 1 oz. Jothionol 1*s*., 1 oz. Metol (original) 5*s*., Styptol tablets, Stypticin tabs. 1*s*. ea., Omnopon Scopolamine Ampoules 2*s*.—or first offer, post free, 25*s*. the lot. Curie Wafers 1*s*. 1½*d*., Cascarets 1*s*. 1½*d*., Goffin's Dentrifice Seokamps loz. 1*s*. 1½*d*., Coleman's Nervlettes 1*s*. 1½*d*., 2 × do. 2*s*. 6*d*., 3 doz. 6*d*. Electric Sticks—or first offer 12*s*. post free lot. 4 lb. Primer's Ext. Alni liq. 12*s*. the lot, 1,000 Phenac. tabs. gr. v. 50*s*., 500 Phenac. Co. tabs. 25*s*. Lane, Chemist, Hove.

OPTICAL AND PHOTOGRAPHIC.

KODAK Film Tank for films up to 3½ inches. Neathercoat, 60 Denmark Hill, S.E.

MISCELLANEOUS.

FOR Sale, Whitlas Dictionary of Treatment, B.P. 98 and 85, Squire's Companion, No. 3 Folding Browne's Camera, 5 pint Seltzogene, Piperazine, Tabloids, and Phenacetin. Offers. McMullan, Chemists, Larne.

ADVERTISING Sign, 14 in. by 18 in., handsomely framed, suitable for any window, and complete Box of changeable Metal Letters; quite new; cost 35*s*.; accept 22*s*. 6*d*.; approval. C. D., 100 Morshead Mansions, Maida Vale, W. 9.

WANTED.

WANTED, 1 cwt. Sublimed Sulphur Coml. Heywood, Sand Bank, Bamford, Rochdale.

SACCHARIN wanted. Give full particulars to Walton, Chemist, Batley Carr.

ATROPIN. Sulph., 4 drs.; offers wanted; whole or part. Apply 32/5, Office of this Paper.

SALICINE; large or small quantities; spot cash; state price and quantity. Russell, 27 Store Street, W.C. 1.

ATOPHAN and NOVATOPHAN, powder or tablets; state quantity and price. Apply 87/9, Office of this Paper.

TINS required for Boot Polish, Ointments, Metal Paste, etc. Samples and prices to Fortune & Co., "Brytenup" Polish Works, Preston.

WANTED, Bent Glass Counter Case, with serving space in centre; length 6 ft., width 20 in. Full particulars to Halliday, 288 Rochdale Road, Oldham.

WANTED, Clark's Glycola Soap, old stock, which has hardened with keeping; also Old Brown Windsor Soap, as old as possible. Apply 84/23, Office of this Paper.

SMALL National Cash Register (second-hand) wanted; self-adder; must be in good condition. Write, with particulars, to F. Oldfield, 214 Queen's Road, Walthamstow, E. 17.

OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W.

TIN Boxes. Advertiser is open to purchase, in large or small quantities at good prices, tin boxes measuring 2¾ to 3 in. long by 2 in. wide, ⅝ or ¾ in. deep, or approximating thereto; not necessarily new. Particulars to 79/30, Office of this Paper.

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to be made in the Photographic Department of your business, but the Developing, &c., must be **WELL** and **QUICKLY** done. We are experts, and return all work received by first post on same day. We pay return postage. Send for our list and give us a trial.

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DISPENSING BOTTLES & PHIALS.

CLEAR BLUE TINTED, plain or graduated.
3 and 4 ounce. 6 and 8 ounce.
12 ounce.
WHITE PHIALS, plain or teaspoons.
½ ounce. 1½ ounce.
1 " 2 "
BLUE LOTION BOTTLES, all sizes.

Lowest Market Prices Charged.

CORKS. Superior Quality. No advance in price.
6 and 8 ounce ... ... **1s.** per gross, in 6 gross bags.
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Delivered free within 7 miles, and to certain stations. Particulars on application.

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Established 100 Years.
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ONLY LARD
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is made exclusively
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and is the
BEST AND MOST RELIABLE
Guaranteed B.P.
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THE GOLD MEDAL FRUIT DRINK.
Quick Seller. Big Profits. Quarter of a Century's Reputation.
"ABDINE" is the most popular Health Drink. Superior to all Mineral Waters. Sold in Packets, **2** for **2½d.**; Boxes of 13 Packets **1/3**.
Order through your Wholesale Drug House.
D. M'GLASHAN, M.P.S., Abdine Works, Westfield Road, EDINBURGH.
Wholesale Prices on Application.

WAR WANTS EXCHANGE.

For the terms upon which announcements are inserted herein see Supplement for June 30, p. xxxvi.

WANTED.

Barbitone sodium (30/16)
Butyl chloral hydrate (30/16)
Resorcin (30/16)
Trional (30/16)

FOR DISPOSAL.

Atropine sulph., ½ oz. (32/012)
Benzonaphthol, 1 lb. (31/17)
Colchicin (Merck) (32/012)
Exalgine, 1 oz. (32/012)
Morphia hydrochlor., 1 oz. (32/012)
Morphia tart., 1 oz. (32/012)
Phenacetin, 4 oz. (32/012)
Quin. Valerian, 8 oz. (31/17)
Stypticin (Merck) (32/012)
Thiocol (Heyden), 8 oz. (32/012)

Sole South African Agent & Shipper for
JOHN GOSNELL & Co., Ltd. London.
The STANDARD TABLET AND PILL CO., Ltd., Hove.
The "DO-WELL" FEEDER VALVES AND TEATS.

ASTELL J. WILLSON
Chemists' Buying Agent and General Export Merchant
25 MONUMENT ST., LONDON, E.C.
Cable Address: "Acriton London." Telephone: 5683 Avenue. And P.O. Box 1155 Capetown.

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Proprietor of "ESTELLE" *(Reg.)* Brand of Toilet Articles & Feeding Bottles.

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